

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	407	(544/92,94).ccls.	US-PGPUB; USPAT	OR	OFF	2007/03/06 10:21

 PALM INTRANET

Day : Tuesday
Date: 3/6/2007
Time: 10:19:38

Inventor Information for 10/518324

Inventor Name	City	State/Country
TAYLOR, ERIC DEGUYON	NEWARK	DELAWARE

[Appln Info](#) [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity/Reexam](#) [Foreign](#)

Search Another: Application# or Patent#
PCT / / or PG PUBS #
Attorney Docket #
Bar Code #

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | Home page

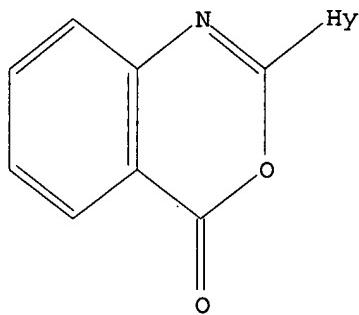
(1)

ring nodes :
 1 2 3 4 5 6 7 8 9 10
 chain bonds :
 8-12 10-11
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
 exact/norm bonds :
 5-7 6-10 7-8 8-9 8-12 9-10 10-11
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 :

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:CLASS 12:Atom
 Element Count :
 Node 12: Limited
 C,C3-5
 N,N1-2

L1 STRUCTURE UPLOADED

=> d 11
 L1 HAS NO ANSWERS
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11
 SAMPLE SEARCH INITIATED 14:13:38 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 472 TO ITERATE

100.0% PROCESSED 472 ITERATIONS 8 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 8137 TO 10743
 PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

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=> s 11 sss full
FULL SEARCH INITIATED 14:13:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9173 TO ITERATE
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100.0% PROCESSED 9173 ITERATIONS 242 ANSWERS
SEARCH TIME: 00.00.01
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L3 242 SEA SSS FUL L1

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=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
                           ENTRY SESSION
FULL ESTIMATED COST      172.10    172.31
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FILE 'CAPLUS' ENTERED AT 14:13:50 ON 26 FEB 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 26 Feb 2007 VOL 146 ISS 10
FILE LAST UPDATED: 25 Feb 2007 (20070225/ED)

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They are available for your review at:

<http://www.cas.org/infopolicy.html>

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=> s 13
L4 79 L3
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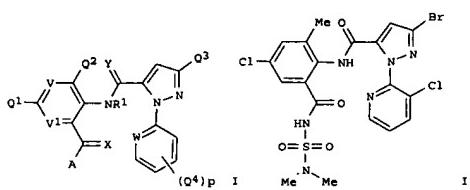
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L4 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007-53872 CAPLUS
 DOCUMENT NUMBER: 146:163116

TITLE: Preparation of N-thio-anthraniamide compounds and their use as pesticides
 INVENTOR(S): Schmidt, Thomas; Puhl, Michael; Dickhaut, Joachim;
 Bastiaans, Henricus Maria Martinus; Rack, Michael;
 Culbertson, Deborah L.; Anspaugh, Douglas D.; Braun,
 Franz-Josef; Bucci, Toni; Cottet, Henry Van Tuyl;
 Kuhn, David G.; Oloumi-Sadeghi, Hassan
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 231pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006670	A1	20070118	WO 2006-EP63761	20060630
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:		US 2005-697166P	P 20050707	

GI

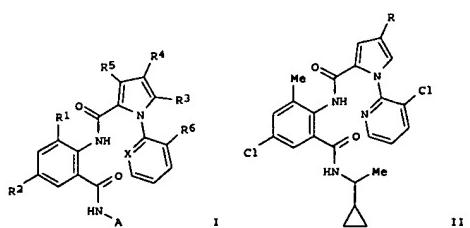


L4 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006-1173505 CAPLUS
 DOCUMENT NUMBER: 145:489257

TITLE: Preparation of pyrrolylcarbonyl anthranilamides as pest control agents
 INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Ueki, Toshihiko
 Ishihara Sangyo Kaisha, Ltd., Japan
 PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 50pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006118267	A1	20061109	WO 2006-JP309025	20060428
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:		JP 2005-134582	A 20050502	
		JP 2006-69614	A 20060314	

OTHER SOURCE(S): MARPAT 145:489257
 GI



AB Title compds. I (R1 = halo or alkyl; R2 - R5 = H, halo, alkyl, etc.; R6 = halo or (halo)alkyl; A = H, (un)substituted alkyl, etc.; X = N or

Habte

L4 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AB N-thio-anthraniamide compds. I [A is a substituted amino sulfoxide or imino sulfoxide; R1 is H, substituted alkyl, alkenyl, or cycloalkyl; O1 and O2 are independently H, halogen, CN, SCN, nitro, OH, halogen-(un)substituted alkyl, alkenyl, alkylnyl, cycloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylsulfonyloxy, alkylemino, cycloalkylamino, alkylcarbonyl, alkoxy carbonyl, alkyleminocarbonyl, or alkylsilyl] O3 is halogen-(un)substituted alkyl, alkenyl, alkylnyl, or cycloalkyl O4 is halogen, CN, nitro, OH, COOH, CONH2, halogen-(un)substituted alkyl, alkenyl, alkylnyl, cycloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylsulfonyloxy, alkylemino, cycloalkylamino, alkylcarbonyl, or alkoxy carbonyl; X and Y are independently O or S; W is N, CH, or C(=O); V and VI are independently N or C(=O); p is 0-4] were prepared and used for the control of insects, acarids or nematodes, and in methods for treating, controlling, preventing or protecting animals against infestation or infection by parasites.

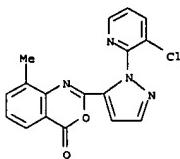
Compds. of formula I and compns. comprising them can also be used for controlling and preventing infestations and infections in animals including warm-blooded animals (including humans) and fish. Thus, anthranilamide

II was prepared and tested as a pesticide.

IT 920336-54-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of N-thio-anthraniamide compds. and their use as pesticides)

RN 920336-54-5 CAPLUS

CN 4H-3-1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 L1 (un)substituted CH, with limitations) or their N-oxides and salts were prepd. as pest control agents. Thus, cyclization of 1-(3-chloropyridin-2-

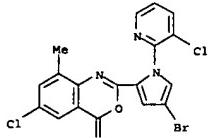
-yl)-4-bromopyrrole-2-carboxylic acid, which was obtained from pyrrole and 2,3-dichloropyridine, with 5-chloro-3-methylanthranilic acid in the presence of methanesulfonyl chloride followed by ring-opening of the resultant benzoxazine with α -methylcyclopropylmethanamine gave II (R = Br). Its chloro analog II (R = Cl) showed $\geq 90\%$ control against Prodenia litura at a concn. of 12.5 ppm.

IT 914457-23-1 914457-29-7
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrrolylcarbonyl anthranilamides as pest control

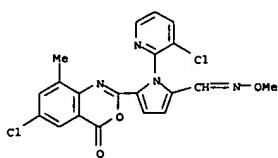
agents via ring-opening of pyrrolylbenzoxazine with amines)

RN 914457-23-1 CAPLUS

CN 4H-3-1-Benzoxazin-4-one, 2-[4-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrrol-2-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 914457-29-7 CAPLUS
 CN 1H-Pyrrole-2-carboxaldehyde,
 5-(6-chloro-8-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-1-(3-chloro-2-pyridinyl)-2-(α -methoxyloxime) (9CI) (CA INDEX NAME)

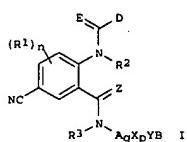


REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006-1120573 CAPLUS
 DOCUMENT NUMBER: 145:455006
 TITLE: Preparation of cyanoanthranilamides as insecticides and acaricides
 INVENTOR(S): Jeanguenat, Andre; O'Sullivan, Anthony; Muehlebach, Michel; Trah, Stephan; Hall, Roger Graham
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl. 100pp.
 CODEN: PIXMD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006111341	A1	20061026	WO 2006-EP3504	20060418
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, ER, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	GB 2005-7989	A 20050420	
		GB 2005-25060	A 20051208	

PRIORITY APPLN. INFO.: MARPAT 145:455006
 GI



AB Title compds. [I; E, Z = O, S; A = (substituted) alkylene, alkenylene, alkynylene, bivalent mono- or bicyclic ring; X = O, NH, alkylimino; Y = (substituted) mono- or bicyclic ring; p, q = 0, 1; B = (substituted) 3-

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 membered (heterocyclic) ring; R1 = halo, NO2, cyano, OH, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, (substituted) Ph, PhCH2, PhO, etc.; n = 0-3; R2, R3 = H, alkyl, alkenyl, alkynyl, substituted cycloalkyl; D = (substituted) Ph, pyridyl, pyrrolyl, pyrazolyl, pyrimidyl, were prepd. Thus, 2-[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-methyl-4-oxo-4H-benzod[1,3]oxazine-6-carbonitrile, bicycloprop-1-ylamine hydrochloride (prepns. given), and Et3N were heated together in THF at 60° for 1 h to give 2-[3-chloropyridin-2-yl]-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [2-(bicycloprop-1-ylcarbamoyl)-4-cyano-6-methylphenyl]amide. The latter at 400 ppm showed >80% activity against Cydia pomonella.

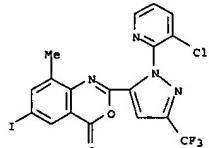
IT 500028-90-0 736995-60-1

RN: RCT (Reactant); RACT (Reactant or reagent)

(preparation of cyanoanthranilamides as insecticides and acaricides)

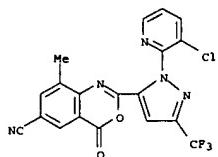
RN 500028-90-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)



RN 736995-60-1 CAPLUS

CN 4H-3,1-Benzoxazin-6-carbonitrile, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006-1048454 CAPLUS

DOCUMENT NUMBER: 146-38411

TITLE: QSAR study of antiplatelet agents

AUTHOR(S): Katritzky, Alan R.; Paucureanu, Liliana M.; Slavov, Svetoslav; Dobchev, Dimitar A.; Karelson, Mati

CORPORATE SOURCE: Center for Heterocyclic Compounds, Department of Chemistry, University of Florida, Gainesville, FL, 32611, USA

SOURCE: Bioorganic & Medicinal Chemistry (2006), 14(22), 7480-7500

CODEN: BMCECP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A QSAR methodol. that involves multilinear (Hansch-type) and nonlinear (ANN back propagation) approaches was developed to correlate the antiplatelet activity of 60 benzoxazinone derivs. against factor Xa. The statistical characteristics provided by multilinear model ($R^2 = 0.821$) indicated satisfactory stability and predictive ability, while the ANN predictive ability is somewhat superior ($R^2 = 0.909$). The multilinear model provided insight into the main factors that modulate the inhibitory activity of the investigated compds.

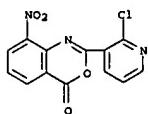
IT 916481-14-6 916481-15-7

RN: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(QSAR study of antiplatelet agents)

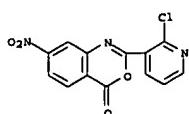
RN 916481-14-6 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-8-nitro- (CA INDEX NAME)



RN 916481-15-7 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-7-nitro- (CA INDEX NAME)



REFERENCE COUNT: THIS

39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

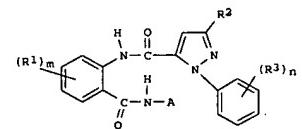
03/06/2007

L4 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:768139 CAPLUS
 DOCUMENT NUMBER: 145:211038
 TITLE: Preparation of pyrazolyl moiety-containing anthranilamide compounds as pest control agents
 INVENTOR(S): Koyanagi, Toru; Yokeda, Tetsuo; Higuchi, Koji;
 Kiriya, Kazuhisa; Taguchi, Yohei; Hamamoto, Taku
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 81pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
WO 2006080311	A1	20060803	WO 2006-JP301057	20060124		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	JP 2006232814	A	20060907	JP 2006-12161	20060120
PRIORITY APPLN. INFO.:			JP 2005-17358			20050125

OTHER SOURCE(S): MARPAT 145:211038
 GI



AB The title compds. I (R1 = halo, alkyl, alkenyl, etc.; R2 = H, halo, alkyl, etc.; R3 = halo, alkyl, alkoxy, etc.; A = alkyl substituted by Y; Y = cycloalkyl which may be substituted by at least one substituent selected from the group consisting of halo, alkyl and haloalkyl; m = 0 - 4; n = 0

L4 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

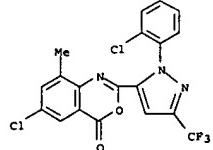
SI are prep'd. Thus,
 N-[4-chloro-2-[(1-cyclopropylethyl)amino]carbonyl]-6-methylphenyl-1-(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide was prep'd. from 1-cyclopropylethylamine hydrochloride and 6-chloro-2-[(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. Compds. of this invention at 50 ppm gave 2 901 kill of Spodoptera litura larvae.

IT 904733-67-1 904733-69-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrazolyl moiety-containing anthranilamide compds. as

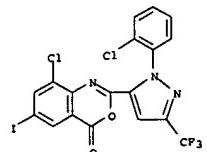
pest control agents)

RN 904733-67-1 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 904733-69-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[(2-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:630314 CAPLUS
 DOCUMENT NUMBER: 145:57521
 TITLE: Insecticidal and acaricidal mixtures comprising a pyrazolecarboxamide derivative
 INVENTOR(S): Annan, Isaac Billy; Hughes, Kenneth Andrew; Lehman, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIIXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
WO 2006068669	A1	20060629	WO 2005-US26116	20050722		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	AU 2005319651	A1	20060629	AU 2005-319651	20050722
CA 2568560			A1	20060629	CA 2005-2568560	20050722
PRIORITY APPLN. INFO.:			US 2004-591239P			P 20040726
			US 2005-690007P			P 20050613
			WO 2005-US26116			W 20050722

OTHER SOURCE(S): MARPAT 145:57521

AB Disclosed are insecticidal and acaricidal mixts. relating to combinations comprising 3-bromo-N-[4-cyano-2-methyl-6-(methylamino)carbonyl]phenyl-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (preparation given), an N-oxide, or a salt thereof, and at least one invertibrate pest control agent selected from neonicotinoids, cholinesterase inhibitors, sodium channel modulators, chitin synthesis inhibitors, ecdysone agonists, lipid biosynthesis inhibitors, macrocyclic lactones, GABA-regulated chloride channel blockers, juvenile hormone mimics, ryanodine receptor ligands, octopamine receptor ligands, mitochondrial electron transport inhibitors, neristostoxin analogs, pyridalyl, flonicamid, pymetrozine, dieldrin, metaflumizone, biol. agnts. and salts of the foregoing. Target species include *Bemisia argentifolii*, *Frankliniella occidentalis*, *Empoasca fabae*, *Peregrinus maidis*, *Aphis gossypii*, *Myzus persicae* and *Plutella xylostella*.

IT 736995-63-4 P 736995-64-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of insecticidal and acaricidal pyrazolecarboxamide derivative)

RN 736995-63-4 CAPLUS

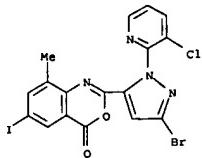
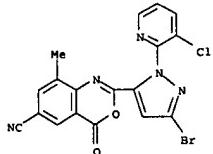
CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[(2-chlorophenyl)-1H-pyrazol-5-

03/06/2007

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L4 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
y1)-6-iodo-8-methyl- (9Cl) (CA INDEX NAME)

(Continued)

RN 736995-64-5 CAPLUS
CN 4H-3,1-Benzoxazine-6-carbonitrile,
2-(3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl)-8-methyl- (9Cl) (CA INDEX NAME)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:558556 CAPLUS

DOCUMENT NUMBER: 145:62886

TITLE: Anthranilamide derivatives as insecticides, and their preparation, pesticidal compositions and formulation
INVENTOR(S): Jeanguenest, Andre; O'Sullivan, Anthony Cornelius
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006061200	A1	20060615	WO 2005-EP13103	20051207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.: GB 2004-27008				A 20041209

OTHER SOURCE(S): MARPAT 145:62886
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Compds. of formula I, and the agrochem. acceptable salts and all stereoisomers and tautomeric forms of the compds. of formula I can be used as agrochem. active ingredients and can be prepared in a manner known per se. Several examples on formulation of compds. of formula I is also disclosed in this invention. Compds. of formula I wherein El and W2 are independently O or S; R1 is halo, CN, NO2, OH, Cl-1 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)cycloalkyl, C1-4 (halo)alkoxy, Cl-4 (halo)alkylthio, Cl-4 (halo)alkylsulfinyl, Cl-4 (halo)alkylsulfonyl, Cl-1 alkylamino, C2-4 dialkylamino, C1-6 cycloalkylamino, etc.; n is 0, 1, 2, 3, or 4; R2 and R3 are independently H, (un)substituted Cl-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, or (un)substituted C3-6 cycloalkyl; D is (un)substituted Ph, (un)substituted pyridyl, (un)substituted pyrazole, (un)substituted pyrrole, or (un)substituted pyrimidine; Y1 and Y2 are independently (un)substituted Cl-6 alkylene, (un)substituted C2-6 alkylene, or (un)substituted C3-6 alkynylene, etc.; G is a bond, O,

L4 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
N-Z1, S or G1-C(=G2)-G3; G1 and G3 are independently a bond, O, S, or

N23; G2 is O, S or N23; Z and Z1-Z3 are independently H, Cl-6 (halo)alkyl,

C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, Cl-4 (halo)alkoxy, Cl-4 (halo)alkylthio, etc.; Y3 is H, halo or Cl-6 (halo)alkyl; Y1b is a bond, or (un)substituted Cl-6 alkylene, (un)substituted C2-6 alkylene, or (un)substituted C3-6 alkynylene; and their tautomers, agrochem. utilizable salts and auxiliaries are claimed. Example compd. II was prep'd. by amidation of 6-chloro-2-[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-methylbenzod[1,3]oxazin-4-one with 1-amino-2-propanol; the resulting 2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-carboxylic acid (4-chloro-2-(2-hydroxypropylcarbamoyl)-6-methylphenyl)amide underwent substitution with thioglycolic acid to give thioglycolic acid

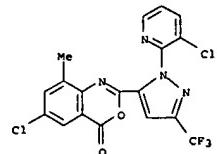
S-[2-(5-chloro-2-[(2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazole-3-carboxyli)amino]-3-methylbenzoylamino)-1-methylethyl] ester, which underwent deacetylation and methylation to give the corresponding Me thio ether, which underwent oxidn. to give the corresponding sulfoxide, which reacted with trifluoroacetamide to give the corresponding N-trifluoroacetylated sulfoxide, which underwent deacetylation to give compd. II. All the invention compds. were evaluated for their insecticidal activity. Some of the tested compds. showed good activity against *Aphis craccivora*, *Diabrotica balteata*, *Heliothis virescens* (application to foliage and egg), *Myzus persicae* (foliar and systemic application), *Plutella xylostella* and *Spodoptera littoralis*.

IT R6: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of anthranilamide derivs. as insecticides)

RN 438450-40-9 CAPLUS

CN 4H-3,1-Benzoxazine-4-one, 6-chloro-2-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl-8-methyl- (9Cl) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:496102 CAPLUS

DOCUMENT NUMBER: 144:462625

TITLE: Preparation of anthranilamide derivative insecticides and acaricides
INVENTOR(S): Leh, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin; Taggi, Andrew Edmund; Bereznak, James FrancisPATENT ASSIGNEE(S): E.I. Dupont De Nemours and Co., USA
SOURCE: PCT Int. Appl., 97 pp.DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006055922	A2	20060526	WO 2005-US42196	20051118
WO 2006055922	A3	20061221		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.: US 2004-629120P				P 20041118
			US 2005-689414P	P 20050610

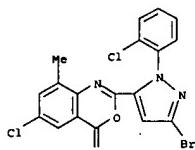
OTHER SOURCE(S): MARPAT 144:462625
GI

AB The anthranilamide derivs. I and their geometric and stereoisomers, N-oxides, and salts [J = (un)substituted Ph or N-containing heterocyclic]; R1 = alkyl alkenyl, alkynyl, etc.; R2 = alkylcarbonyl, alkoxy carbonyl or (di)alkylalkenocarbonyl; R3 = (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R4 = (un)substituted alkylcycloalkyl, alkenylcycloalkyl, alkynylcycloalkyl, cycloalkenylalkyl, cycloalkylalkenyl, cycloalkylalkenyl, cycloalkenylalkyl or alkylcycloalkenyl, oxiranylalkyl, thiranylpalkyl, oxetanylalkyl, thietanylalkyl, 3-oxetanyl or 3-thietanyl; R5 =

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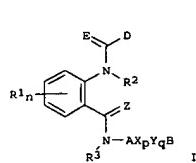
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L4 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (cyclo)alkyl, haloalkyl, alkenyl alkynyl, etc.) are prep'd. as pesticides
 for controlling invertebrate pests, specifically insecticides and
 acaricides.
 IT 886583-61-5
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate in preparation of anthranilamide derivative
 insecticides and
 acaricides)
 RN 886583-61-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-bromo-1-(2-chlorophenyl)-1H-pyrazol-5-yl]-6-
 chloro-8-methyl- (9CI) (CA INDEX NAME)



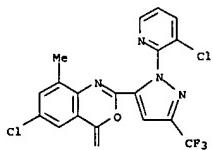
L4 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2006:367128 CAPLUS
 DOCUMENT NUMBER: 144:364548
 TITLE: Preparation of anthranilamide derivative acaricides
 and insecticides
 INVENTOR(S): O'Sullivan, Anthony Cornelius; Hughes, Dave;
 Jeanguenat, Andre; Muehlebach, Michel; Loiseleur, Olivier
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
 SOURCE: PCT Int. Appl., 152 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006040113	A2	20060420	WO 2005-EP10891	20051010
WO 2006040113	A3	20060914		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.: GB 2004-22556				A 20041011
OTHER SOURCE(S): MARPAT 144:364548				GI



AB The anthranilamides I [E, Z = O or S; A, Y = alkylene, alkenylene, alkynylene, etc.; X = O, NH or alkyl-substituted NH; B = (un)substituted ring; D = (un)substituted Ph, pyridyl, pyrazolyl, etc.; R1 = amino,

L4 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 formyl, cyanoalkenyl, etc.; R2, R3 = H, (un)substituted alkyl, alkenyl, cycloalkyl, etc.; n = 0, 1-4; p, q = 0 or 1 and I salts, stereoisomers and tautomers are prep'd. as acaricides and insecticides.
 IT 438450-40-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in preparation of anthranilamide derivative acaricide and
 insecticide)
 RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2006:193331 CAPLUS
 DOCUMENT NUMBER: 144:274265
 TITLE: Preparation of novel anthranilamides useful for
 controlling invertebrate pests
 INVENTOR(S): Leh, George Philip
 PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA
 SOURCE: PCT Int. Appl., 87 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

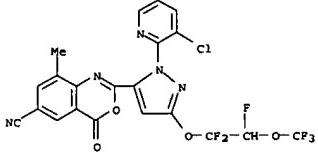
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006023783	A1	20060302	WO 2005-US29639	20050817
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.: US 2004-602153P				P 20040817
OTHER SOURCE(S): MARPAT 144:274265				GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY * AVAILABLE VIA OFFLINE PRINT *

AB The title compds. I (Q = II-IV; R1 = X-Z-O-R11; X = O, S or NR12; Z = haloalkylene or haloalkenylene; R2 = H, alkyl, haloalkyl, etc.; R3 = H, alky, alkenyl, etc.; R4 = H, alkyl, alkenyl, etc.; R5 = OH, alkoxy, alkylamino, etc.; or NR4R5 = ring containing 2-6 carbon atoms and optionally one addnl. atom of N, S or O; R6, R7 = H, alkyl, alkenyl, etc.; W = N, CR2; V = N, CR14; R11 = alkyl, alkenyl, cycloalkyl, etc.; R12 = H, alkyl; R13, R14 = H, alkyl, cycloalkyl, etc.; L = a direct bond or a linking chain of one or more members selected from C, N, O, S, etc.; n = 1-4), were prepared and claimed. E.g., a multi-step synthesis of V, starting from 3-chloro-2-hydrazinopyridine and di-Et maleate, was given. Compound V resulted in at least 80% mortality when tested against fall armyworm (*Spodoptera frugiperda*). Also disclosed are compns. containing the compds. I and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound or a composition of the invention.

03/06/2007

L4 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 877876-91-0
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel anthranilamides useful for controlling
invertebrate pests)
RN 877876-91-0 CAPLUS
CN 4H-3,1-Benzoxazine-6-carbonitrile, 2-[1-(3-chloro-2-pyridinyl)-3-[1,1,2-trifluoro-2-(trifluoromethoxy)ethoxy]-1H-pyrazol-5-yl]-8-methyl-4-oxo-(9CI) (CA INDEX NAME)

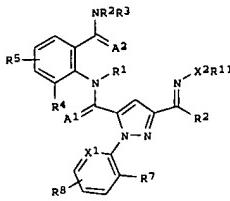


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
ACCESSION NUMBER: 2006:11014 CAPLUS
DOCUMENT NUMBER: 144:108313
TITLE: Preparation of pyrazoloyl anthranilamides as pesticides.
INVENTOR(S): Alig, Bernd; Fischer, Ruediger; Funke, Christian; Gessing, R. P. Ernst; Hense, Achim; Krueger, Bernd-Wieland; Loesel, Peter; Arnold, Christian
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
SOURCE: PCT Int. Appl. 77 pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

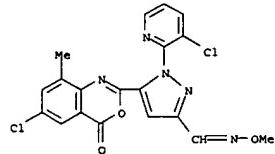
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006000336	A2	20060105	WO 2005-EP6482	20050616
WO 2006000336	A3	20061214		
WO 2006000336	A9	20070201		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, S2, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102004031100	A1	20060112	DE 2004-102004031100	20040628
PRIORITY APPLN. INFO.: DE 2004-102004031100A 20040628				
OTHER SOURCE(S): MARPAT 144:108313 GI				

L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Title compds. [I; A1, A2 = O, S; X1 = N, CR10; X2 = NR11, O, C(R11)2; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, alkylamino, alkylcarbonyl, etc.; R3 = H, R12, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; NR2R3 = atoms to form a ring; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, alkoxy, halo, cyano, etc.; R5, R8 = H, halo, (substituted) alkyl, haloalkyl, haloalkoxy, R13, etc.; R7 = H, alkyl, cycloalkyl, haloalkyl, halo, alkylthio, alkylsulfanyl, haloalkylthio, etc.; R9 = H, alkyl, cycloalkyl, haloalkyl, alkoxy, alkylthio, etc.; R11 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R12 = (substituted) alkylthio, alkylsulfenyl, haloalkylthio, haloalkylsulfenyl, PhS, PhSO; R13 = amino, SH, SCN, trialkylsilyloxy, B(OR18)2, etc.; R18 = H, alkyl], were prepared Thus,
5-(6-chloro-8-methyl-4H-benzo[d][1,3]oxazin-2-yl)-1-(3-chloropyridin-2-yl)-1H-pyrazole-3-carboxaldehyde O-methyloxime (preparation given) was refluxed with isopropylamine in THF to give 1.57%
2-(3-chloropyridin-2-yl)-5-(methoxyminomethyl)-2H-pyrazole-3-carboxylic acid (4-chloro-2-isopropylcarbamoyl-6-methylphenyl)amide. The latter at 100 g/h gave 100% kill of *Phaedon cochleariae* on cabbage after 7 days.
IT 872882-58-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazoloyl anthranilamides as pesticides)
RN 872882-58-1 CAPLUS
CN 1H-Pyrazole-3-carboxaldehyde,
5-(6-chloro-8-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-1-(3-chloro-2-pyridinyl)-3-(O-methyloxime) (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1314351 CAPLUS

DOCUMENT NUMBER: 144:51574

TITLE: Preparation of pyrazolylcarbonyl anthranilamides as insecticides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul

PATENT ASSIGNEE(S): E.I. DuPont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIKXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005118552	A2	20051215	WO 2005-US12465	20050412
WO 2005118552	A3	20060126		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005250328	A1	20051215	AU 2005-250328	20050412
CA 2561369	A1	20051215	CA 2005-2561369	20050412
EP 1751112	A2	20070214	EP 2005-779580	20050412
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.: US 2004-561813P			P 20040413	
		WO 2005-US12465		W 20050412

OTHER SOURCE(S): CASREACT 144:51574; MARPAT 144:51574

GI

L4 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

DOCUMENT NUMBER: 144:51574

TITLE: Preparation of pyrazolylcarbonyl anthranilamides as insecticides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul

PATENT ASSIGNEE(S): E.I. DuPont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIKXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

AB: The title compds. I [R1= Me, Cl, Br or I; R2 = Cl, Br, I or CN; R3 = Cl, Br, CF3, OCH2CF3 or OCP2H; R4 = H, alkyl, alkenyl or alkynyl (each optionally substituted with CN or SMe); R5 = Ph substituted with 1-3 substituents selected from F, Cl, Br and Me], useful for controlling an invertebrate pest, were prepared. E.g., a multi-step synthesis of I (R1 = Me; R2 = CN; R3 = Br; R4 = iso-Pr; R5 = 2-ClC6H4), starting from 2-chlorophenylhydrazine.HCl and glyoxylic acid, was given. Also disclosed are methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound (e.g., as a composition described herein). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

IT 871239-19-9P 871239-20-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrazolylcarbonyl anthranilamides as insecticides)

RN 871239-19-9 CAPLUS

CN 4H-3,1-Benzoxazine-6-carbonitrile, 2-[3-bromo-1-(2-chlorophenyl)-1H-pyrazol-5-yl]-6,8-dichloro- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 2005:1084903 CAPLUS

DOCUMENT NUMBER: 144:1613

TITLE: Insecticidal anthranilic diamides: A new class of potent ryanodine receptor activators

INVENTOR(S): Lahm, George P.; Selby, Thomas P.; Freudenberg, John

PATENT ASSIGNEE(S): H. Stevenson, Thomas M.; Myers, Brian J.; Seburyamo, Gilles; Smith, Ben K.; Flexner, Lindsey; Clark, Christopher E.; Cordova, Daniel

CORPORATE SOURCE: DuPont Crop Protection, Stine-Haskell Research Center, Newark, DE, 19711, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(22), 4898-4906

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:1613

AB: A novel class of anthranilic diamides has been discovered with exceptional insecticidal activity on a range of Lepidoptera. These compds. have been found to exhibit their action by release of intracellular Ca2+ stores mediated by the ryanodine receptor. The discovery, synthesis, structure-activity, and biol. results are presented.

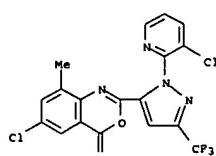
IT 438450-40-9P 500011-82-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(insecticidal activity of)

RN 438450-40-9 CAPLUS

CN 4H-3,1-Benzoxazine-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



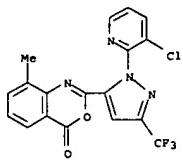
RN 500011-82-5 CAPLUS

CN 4H-3,1-Benzoxazine-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

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L4 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



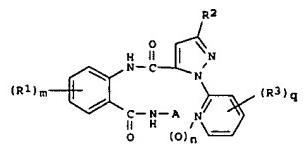
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT.

L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:902883 CAPLUS
DOCUMENT NUMBER: 143:229846
TITLE: Preparation of anthranilamides as pesticides
INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Nakamoto, Kenichi; Hisamatsu, Akihiro
PATENT ASSIGNEE(S): Iaihara Sangyo Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXDA
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077934	A1	20050825	WO 2005-JP2351	20050216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2006131607	A	20060525	JP 2005-33829	20050210
JP 2006131608	A	20060525	JP 2005-33830	20050210
AU 2005212068	A1	20050825	AU 2005-212068	20050216
CA 2552715	A1	20050825	CA 2005-2552715	20050216
EP 1717237	A1	20061102	EP 2005-710251	20050216
R: AT, BE, CH, DE, DK, ES, FR, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
PRIORITY APPLN. INFO.:			JP 2004-41295	A 20040218
			JP 2004-133722	A 20040428
			JP 2004-261507	A 20040908
			JP 2004-295778	A 20041008
			WO 2005-JP2351	W 20050216

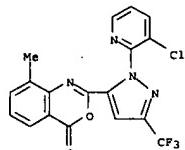
OTHER SOURCE(S): MARPAT 143:229846
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L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

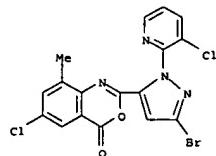


AB The title anthranilamides, i.e. N-(2-aminocarbonylphenyl)-1-(2-pyridyl)-1-N-pyrazole-5-carboxamide derivs. represented by the general formula (I) or salts thereof [wherein R1 = halogeno, alkyl, haloalkyl, alkenyl, haloalkenyl, alkyne, haloalkoxy, alkylcarbonyl, haloalkylcarbonyl, alkoxycarbonyl, haloalkoxycarbonyl, (un)substituted phenoxy carbonyl, NO2, CHO; R2, R3 = halogeno, alkyl, haloalkyl, alkoxy, haloalkoxy, cyano; A = Y-substituted alkyl (Y = C1-4 cycloalkyl optionally substituted by 21 groups selected from halogeno, alkyl, and haloalkyl); n = 0, 1; q = 0-4; provided that R1 is F, Cl, Br, or Me substituted at 4-position of the benzene ring and another R1 is halogeno substituted at 4-position of the benzene ring, the 4-halogeno group is F or Cl] are prepared. They are useful as pesticides, in particular insecticides, acaricides, nematocides, and parasiticides. Thus, 1.49 g Et3N was slowly added dropwise to a solution of 0.8 g cyclopropylmethyamine hydrochloride in 40 mL THF, stirred at room temperature for 30 min, slowly treated dropwise with a solution of 1 g 2-[1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one in 10 mL THF, and refluxed for 4 h to give, after workup and silica gel chromatog., 0.54 g N-[6-[(cyclopropylmethyl)amino]carbonyl]-2-methylphenyl-1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (II). II at 3.1 ppm controlled 2-nd to 3-rd instar larvae of Spodoptera litura on cabbage leaves. IT 500011-82-5 500011-87-0 862995-89-9 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of anthranilamides as pesticides such as insecticides, acaricides, nematocides, and parasiticides)
RN 500011-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

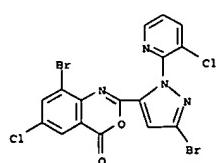
L4 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 862995-89-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT.

L4 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:1080802 CAPLUS

DOCUMENT NUMBER: 142:18265

TITLE: Preparation of (hetero)aromatic-fused oxazine, thiazine and related derivatives as SCCE inhibitors

Linschoten, Marcel

Arexis AB, Swed.: Rasmussen, Pia

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

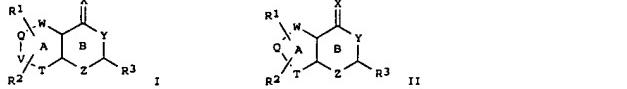
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108139	A2	20041216	WO 2004-DK388	20040607
WO 2004108139	A3	20050310		
WO 2004108139	A8	20050428		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
AU 2004244704	A1	20041216	AU 2004-244704	20040607
CA 2525383	A1	20041216	CA 2004-2525383	20040607
EP 1631295	A2	20060308	EP 2004-736195	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1802160	A	20060712	CN 2004-80015752	20040607
JP 2006526581	T	20061124	JP 2006-508134	20040607
NO 2006000091	A	20060306	NO 2006-91	20060106
US 2006258651	A1	20061116	US 2006-559322	20060426
PRIORITY APPLN. INFO.:		DK 2003-840	A	20030606
		DK 2003-842	A	20030606
		DK 2003-843	A	20030606
		DK 2003-844	A	20030606
		WO 2004-DK388	W	20040607

OTHER SOURCE(S): MARPAT 142:38265
GI

L4 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Title compds. I and II [X = O, S; Y = O, S, NH (or N); Z = O, NH (or N); W, Q, V, T = CH, CH₂, S, N, O; A, B, C, D = (un)saturated aromatic; R1-2

= (if present) alk(en)ynyl, cycloalkyl, etc.; R3 = (un)substituted (hetero)aryl] are prepared For instance, general procedures are described

for the preparation of 2-phenylbenzod[1,3]oxazin-4-one (III). III has IC50 =

2 μ M for stratum corneum chymotryptic enzyme (SCCE). I are useful for the treatment of skin diseases such as pruritus as well as cancer such as ovarian cancer.

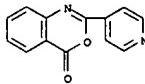
IT 57696-11-4, 2-(Pyridin-4-yl)benzod[1,3]oxazin-4-one

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (hetero)aromatic-fused oxazine, thiazine and related derive. as scce inhibitors)

RN 57696-11-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:713027 CAPLUS

DOCUMENT NUMBER: 142:219453

TITLE: Synthesis and biological properties of selected 2-aryl-4(3H)-quinazolinones

AUTHOR(S): Lee, Eung Seok; Son, Jong Keun; Na, Young Hwa; Jahng, Yurongdong,

CORPORATE SOURCE: College of Pharmacy, Yeungnam University, Kyongsan, 712-749, S. Korea

SOURCE: Heterocyclic Communications (2004), 10(4-5), 325-330

CODEN: HCOCMX; ISSN: 0793-0283

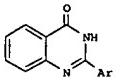
PUBLISHER: Freund Publishing House Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:219453

GI



I

AB A series of 2-aryl-4(3H)quinazolinones I (Ar = Ph, 2-pyridyl, indol-2-yl, quinolin-2-yl) were prepared as parent systems of rutaecarpine and luotonin A and their biol. properties (cytotoxicity and COX-2 inhibitory activity) were evaluated.

IT 53904-12-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ammonolysis of; synthesis and biol. properties of selected 2-aryl-4(3H)-quinazolinones)

RN 53904-12-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:648522 CAPLUS

DOCUMENT NUMBER: 141:190786

TITLE: Preparation of cyano anthranilamide insecticides

INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXKD2

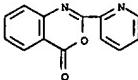
DOCUMENT TYPE: Patent

LANGUAGE: English

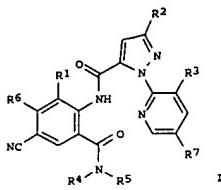
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067528	A1	20040812	WO 2004-US3568	20040121
WO 2004067528	B1	20041007		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, AU 2004207848				
AU 2004067528	A1	20040812	AU 2004-207848	20040121
CA 2512242	A1	20040812	CA 2004-2512242	20040121
EP 1599463	A1	20051110	EP 2004-704148	20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, MD 2005000219				
BR 200406709	A	20051120	BR 2004-6709	20040121
JP 3764895	B1	20060412	JP 2005-518229	20040121
JP 2006515602	T	20060601		
CN 1829707	A	20060906	CN 2004-80002991	20040121
EG 23536	A	20060419	EG 2004-49	20040127
JP 2006028159	A	20060202	JP 2005-148184	20050520
JP 3770500	B2	20060426		
JP 2006290862	A	20061026	JP 2005-148201	20050520
US 2006111403	A1	20060525	US 2005-540966	20050629
PRIORITY APPLN. INFO.:			US 2003-443256P	P 20030128
			JP 2005-518229	A3 20040121
			WO 2004-US3568	W 20040121

OTHER SOURCE(S): MARPAT 141:190786
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L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

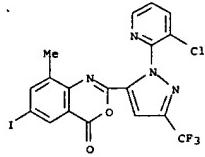


AB The title compds. [I; R1 = Me, Cl, Br, F; R2 = F, Cl, Br, haloalkyl or haloalkoxy; R3 = P, Cl, Br; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cyclosiakylalkyl, each optionally substituted with one substituent selected from the group consisting of halo, CN, SMe 5(O)Me, S(O)2Me and OMe; R5 = H, Me; R6 = H, F, Cl; R7 = H, F, Cl], useful for controlling an invertebrate pest, were prepared E.g., a multi-step synthesis of compound I [R1 = Me; R2 = CF₃; R3 = Cl; R4, R5 = H], was given. The compds. I were tested in various biol. tests (data given). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

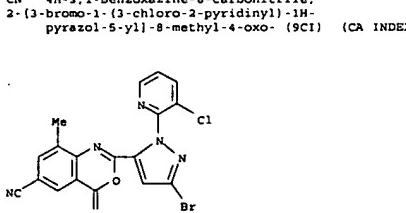
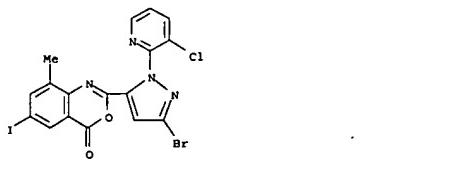
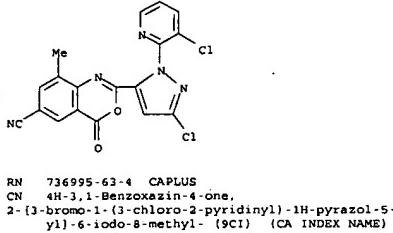
IT 500028-90-0P 736995-60-1P 736995-61-2P
736995-62-3P 736995-63-4P 736995-64-5P
736995-65-6P 736995-66-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cyano anthranilamide insecticides)

RN 500028-90-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

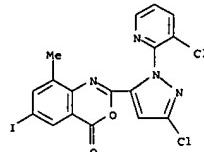


L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 736995-60-1 CAPLUS
CN 4H-3,1-Benzoxazin-6-carbonitrile, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)

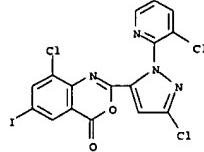
L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 736995-61-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-iodo-8-methyl- (9CI) (CA INDEX NAME)

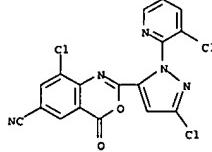


RN 736995-62-3 CAPLUS
CN 4H-3,1-Benzoxazin-6-carbonitrile, 2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)

L4 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



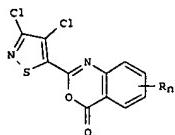
RN 736995-66-7 CAPLUS
CN 4H-3,1-Benzoxazin-6-carbonitrile, 8-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-4-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004-453211 CAPLUS
 DOCUMENT NUMBER: 141:23541
 TITLE: Preparation of isothiazolylbenzoxazinones as agrochemical microbicides
 INVENTOR(S): Assmann, Lutz; Kitagawa, Yoshinori; Shigyo, Takuma;
 Oelgemöller, Michael; Sawada, Haruko
 PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXDZ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

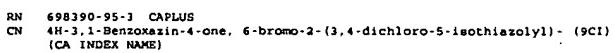
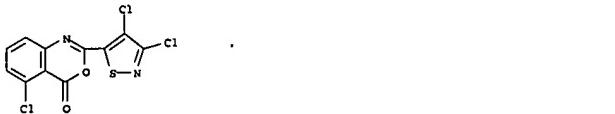
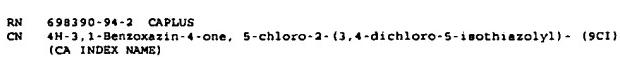
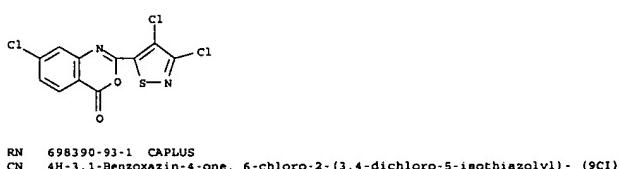
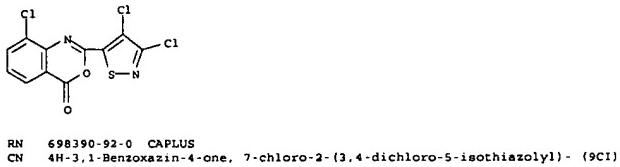
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 2004046140	A1	20040603	WO 2003-EPI2475	20031108	
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,					
TG	JP 2004168707	A	20040617	JP 2002-336329	20021120
AU 2003288012	A1	20040615	AU 2003-288012	20031108	
PRIORITY APPLN. INFO.:			JP 2002-336329	A 20021120	
			WO 2003-EPI2475	W 20031108	

OTHER SOURCE(S): MARPAT 141:23541
 GI



AB Title compds. (I; R = halo, alkyl, alkoxy, alkylthio, alkylsulfonyl, acylamino, Ph, PhO, CO₂H, dialkylsulfamoyl, acylamino, etc.; adjacent

L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



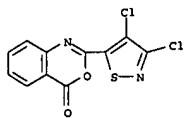
Habte

L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 pairs of R may form alkylene, alkenylene, alklenedioxy, haloalkylenedioxy groups; n = 0-4), were prepnd. Thus, 2-(3,4-dichloroisothiazol-5-yl)carboxylic acid (prepn. given) was refluxed 2 h with Ac2O to give 2-(3,4-dichloroisothiazol-5-yl)-6-bromo-4H-oxo-3,1-benzoxazine. Numerous I at 500 ppm gave >80% control of Pyricularia oryzae on rice.

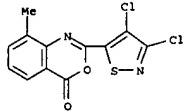
IT 698390-89-5P 698390-90-8P 698390-91-9P
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 698390-95-3P 698390-96-4P 698390-97-5P
 698390-98-6P 698390-99-7P 698391-01-4P
 698391-02-5P 698391-03-6P 698391-04-7P
 698391-05-9P 698391-07-0P 698391-08-1P
 698391-09-2P 698391-10-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)
 (preparation of isothiazolylbenzoxazinones as agrochem. microbicides)
 RN 698390-89-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

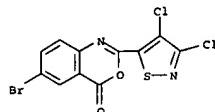


RN 698390-90-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-methyl- (9CI)
 (CA INDEX NAME)

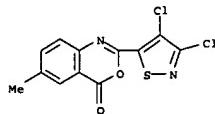


RN 698390-91-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI)
 (CA INDEX NAME)

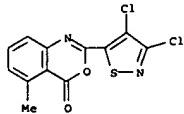
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



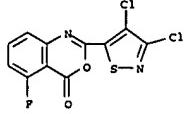
RN 698390-96-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-methyl- (9CI)
 (CA INDEX NAME)



RN 698390-97-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-5-methyl- (9CI)
 (CA INDEX NAME)



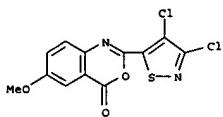
RN 698390-98-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-5-fluoro- (9CI)
 (CA INDEX NAME)



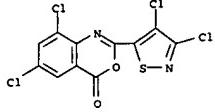
RN 698390-99-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-methoxy- (9CI)
 (CA INDEX NAME)

03/06/2007

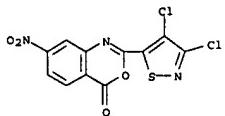
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 698391-01-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)

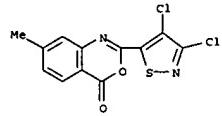


RN 698391-02-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-7-nitro- (9CI) (CA INDEX NAME)

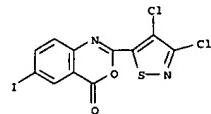


RN 698391-03-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6,7,8-trifluoro- (9CI) (CA INDEX NAME)

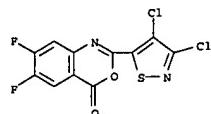
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 698391-04-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6-iodo- (9CI) (CA INDEX NAME)

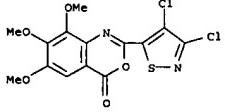


RN 698391-06-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6,7,8-trifluoro- (9CI) (CA INDEX NAME)

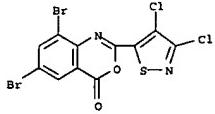


RN 698391-07-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-6,7,8-trifluoro- (9CI) (CA INDEX NAME)

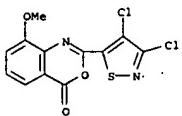
L4 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



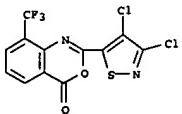
RN 698391-08-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,8-dibromo-2-(3,4-dichloro-5-isothiazolyl)- (9CI) (CA INDEX NAME)



RN 698391-09-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-methoxy- (9CI) (CA INDEX NAME)



RN 698391-10-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3,4-dichloro-5-isothiazolyl)-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:453202 CAPLUS

DOCUMENT NUMBER: 141:23526

TITLE: Novel pyrazole-based enthranilamide insecticides and their preparation, compositions, and use

INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 96 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

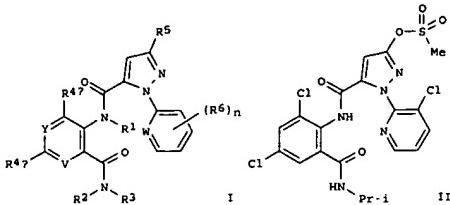
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046129	A2	20040603	WO 2003-US36167	20031112
WO 2004046129	A3	20040715		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
AU 2003295491	A1	20040615	AU 2003-295491	20031112
EP 1560820	A2	20050810	EP 2003-786682	20031112
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, PI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003015714	A	20050906	BR 2003-15714	20031112
CN 1711255	A	20051221	CN 2003-80103401	20031112
JP 2006514632	T	20060511	JP 2004-553598	20031112
US 2006014608	A1	20060119	US 2005-529612	20050330
PRIORITY APPLN. INFO.:			US 2002-426693P	P 20021115
			WO 2003-US36167	W 20031112

OTHER SOURCE(S): MARPAT 141:23526

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L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

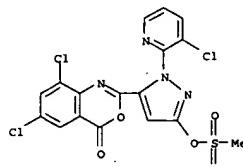


AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR4; W = N, CH, or CR6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxycarbonyl, (di)alkylaminocarbonyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxycarbonyl, or alkylcarbonyl; R3 = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR2R3 = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R4, R47 = H, various carbon and heteroat. substituents; R5 = alkenyl/alkynyl, various derivs. of OH, SH, and NH2; R6 = (halo)alkenyl/alkynyl, OH and derivs. or thio analogs, halo, cyano, CO2H, (di)alkylamino, (un)substituted Ph, PhCH2, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylic acid, which was oxidized to dihydropyrazole, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH2, to give invention compound II.

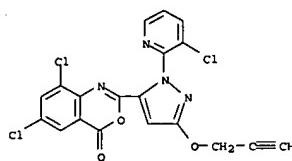
In a test of larval *Plutella xylostella* on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against *Spodoptera frugiperda*, *Myzus persicae*, and *Emoasca fabae*.

IT 697799-66-9, 6,8-Dichloro-2-[1-(3-chloro-2-pyridinyl)-3-[(methylsulfonyl)oxy]-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one

L4 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
697799-69-2P, 6,8-Dichloro-2-[1-(3-chloro-2-pyridinyl)-3-(2-propynyl oxy)-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one
RL: RCT (Reactant); SPM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of novel pyrazole-based anthranilamide insecticides)
RN 697799-66-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-[1-(3-chloro-2-pyridinyl)-3-[(methylsulfonyl)oxy]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 697799-69-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6,8-dichloro-2-[1-(3-chloro-2-pyridinyl)-3-(2-propynyl oxy)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:412903 CAPLUS

DOCUMENT NUMBER: 140:423688

TITLE: Preparation of quinazolinone derivatives as calcilytics

INVENTOR(S): Shcherbakova, Irina; Balandrin, Manuel; Fox, John; Heaton, William; Conklin, Rebecca; Papac, Damon

PATENT ASSIGNEE(S): NPS Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIIXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

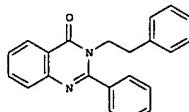
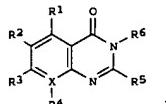
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200401755	A2	20040521	WO 2003-US35162	20031104
WO 2004041755	A2	20040708		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2502302	A1	20040521	CA 2003-2502302	20031104
AU 2003291761	A1	20040607	AU 2003-291761	20031104
EP 1558260	A2	20050803	EP 2003-768655	20031104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1708306	A	20051214	CN 2003-80102626	20031104
JP 2006512315	T	20060413	JP 2004-550482	20031104
US 2006052345	A1	20060309	US 2005-531161	20050412
PRIORITY APPLN. INFO.:			US 2002-423663P	P 20021104
			WO 2003-US35162	W 20031104

OTHER SOURCE(S): MARPAT 140:423688

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L4 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

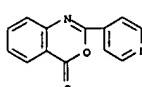


II

AB The title compds. I [R1, R2, R3 = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; R4 (optional) = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; X = C or N; R5 = H, alkyl, furyl, thieryl, styryl, pyridyl, (substituted)phenyl; R6 = H, alkyl, or -(CH2)n-X1-R7; n = 0-2; X1 = O, CO, CHOH, alkyl, or a single bond; R7 = an aromatic group optionally substituted with 1-3 substituents selected from H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.] were prepared as calcium receptor antagonists for the treatment of bone diseases. Thus, reaction of 2-phenyl-benzod[1,3]oxazin-4-one (preparation given) with phenethylamine gave compound II. Methods to determine the biol.

activity of the compound of this invention were demonstrated.
IT 57696-11-4, 2-Pyridin-4-yl-benzod[1,3]oxazin-4-one
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of quinazolinone derivs. as calcilytics)

RN 57696-11-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:333726 CAPLUS

DOCUMENT NUMBER: 140:339324

TITLE: Preparation of anthranilamide derivatives for controlling invertebrate pests

INVENTOR(S): Lehm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl. , 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

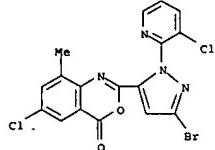
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200403468	A1	20040422	WO 2003-US31677	20031001
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG				
AU 2003282711	A1	20040504	AU 2003-282711	20031001
EP 1546160	A1	20050629	EP 2003-774596	20031001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014497	A	20050802	BR 2003-14497	20031001
CN 1702417	A	20051120	CN 2003-80100845	20031001
JP 2006502226	T	20060119	JP 2004-543434	20031001
US 2006052343	A1	20060309	US 2005-527863	20050316
PRIORITY APPLN. INFO.:			US 2002-416364P	P 20021004
			WO 2003-US31677	W 20031001

OTHER SOURCE(S): MARPAT 140:339324
GI

L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 2004:101149 CAPLUS

DOCUMENT NUMBER: 140:146150

TITLE: Method for preparing fused oxazinones by cyclocondensation of ortho-amino aromatic carboxylic acids with carboxylic acids

INVENTOR(S): Taylor, Eric Deguyon

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 80 pp.

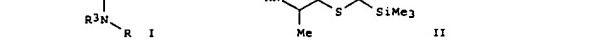
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:



AB Title compd. I [wherein R = -U-A-V-B; U, V = independently (un)substituted alkylene; A = O, S(O)m, m = 0-2; B = tri-substituted silyl];

J = (un)substituted Ph, pyrazolyl, pyrrolyl, pyrimidinyl, R1 = independently (cyclo)alkyl, alkenyl, alkynyl, haloalkylsulfinyl, benzyl, etc.; R2 = H, (un)substituted (cyclo)alkyl, alkenyl, alkynyl, alkoxy, (di)alkylamino, etc.; R3 = H, (cyclo)alkyl, alkenyl, alkynyl, maleate (55%), followed by bromination with phosphorus oxybromide (95%), gave Et 3-bromo-1-(3-chloro-2-pyridinyl)-4,5-dihydro-1H-pyrazole-5-carboxylate. Oxidation of the ester (90%) and hydrolysis (91%), afforded 3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxylic acid. Reaction of the acid with methanesulfonyl chloride and 2-amino-3-methyl-5-chlorobenzoic acid (96%), followed by amidation with [-{(trimesilyl)methyl}thiopropyl]amidine, provided II. The prepared I showed very good to excellent levels of plant protection (20% or less feeding damage) against diamondback moth and fall armyworm. This invention also pertains to a composition comprising at least one compound I and

at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

IT 500011-87-OP, 2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of anthranilamide derivs. for controlling invertebrate pests)RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one.
2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:101149 CAPLUS

DOCUMENT NUMBER: 140:146150

TITLE: Method for preparing fused oxazinones by cyclocondensation of ortho-amino aromatic carboxylic acids with carboxylic acids

INVENTOR(S): Taylor, Eric Deguyon

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 80 pp.

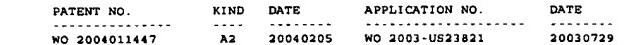
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011447	A2	20040205	WO 2003-US23821	20030729
WO 2004011447	A3	20040318		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG				
AU 2003257028	A1	20040216	AU 2003-257028	20030729
EP 1549643	A2	20050706	EP 2003-772097	20030729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013341	A	20050712	BR 2003-13341	20030729
CN 1671703	A	20050921	CN 2003-818202	20030729
JP 2006501203	T	20060112	JP 2004-524204	20030729
US 2005215795	A1	20050929	US 2004-518324	20041215
PRIORITY APPLN. INFO.:			US 2002-400352P	P 20020731
			US 2003-446438P	P 20030211
			WO 2003-US23821	W 20030729

OTHER SOURCE(S): MARPAT 140:146150
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A method for preparing a fused oxazinone (I; J = an optionally substituted carbon moiety; K together with the two contiguous linking carbon atoms = each (un)substituted a fused Ph ring or a fused 5- or 6-membered heterocarben ring) is disclosed in which (I) a carboxylic acid of formula J-COOH is contacted with a sulfonyl chloride of formula LS(O)2Cl [L = each (un)substituted alkyl, haloalkyl, or Ph] in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride

03/06/2007

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 to carboxylic acid being from about 0.75 to 1.5; (2) the mixt. prep'd. in (1) is contacted with an ortho-amino arom. carboxylic acid in the presence

of an optionally substituted pyridine compd., the nominal mole ratio of the ortho-amino arom. carboxylic acid to carboxylic acid (II; K = same as above) charged in (1) being from about 0.8 to 1.2; and (3) addnl.

sulfonyl

chloride is added to the mixt. prep'd. in (2), the nominal mole ratio of addnl sulfonyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. More specifically disclosed is a method for prep'g. a compd. of formula (III) [X = N, CR₆; Y = N, CH; R₁ = H, R₂ = H, Me; R₃ = Cl-4 alkyl; R₄ = Cl-4 alkyl, halo; R₅ = H, Cl-4 alkyl, Cl-4 haloalkyl, halo; R₆, R₇ = H, Cl-4 alkyl, Cl-4 haloalkyl, halo, cyano,

C1-4

haloalkyl; R₈ = H, Cl-4 alkyl, C₂-4 alkenyl, C₂-4 alkynyl, C₃-6 cycloalkyl, C₄-4 haloalkyl, C₂-4 haloalkenyl, C₂-4 haloalkynyl, C₃-6 haloalkyl, halogen, cyano, NO₂, Cl-4 alkoxy, Cl-4 haloalkoxy, Cl-4 alkylthio, Cl-4 alkylsulfonyl, Cl-4 alkylamino, C₂-8 dialkylamino, C₃-6 cycloalkylamino, (Cl-4 alkyl)(C₃-6 cycloalkyl)amino, etc.; R₉ = CF₃, OCF₃, OCH₂CF₃, S(O)pCF₃, S(O)pCHF₂, halo; p = 0-2] using a compd. of formula (IV); R₁-R₅ = same as above; R₇-R₉ = same as above; X, Y = same as above) that is characterized by prep'g. the fused oxazinone IV by the method(s) above, using a compd. of the formula LS(O)C₂C₁ as the sulfonyl chloride, a compd. of formula (V) (R₇-R₉ = same as above) as the carboxylic acid, and a compd. of formula (VI) (R₄, R₅ = same as above) as the ortho-amino arom. carboxylic acid.

IT 500011-83-6P, 6-Chloro-2-(3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl)-8-methyl-4H-3,1-benzoxazin-4-one 500011-87-0P,

2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-05-7P, 2-[3-Bromo-1-(3,4-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-06-8P, 2-[3-Bromo-1-(3,6-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one 652980-09-1P, 2-[3-Bromo-1-(3-chloro-1-oxido-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4H-3,1-benzoxazin-4-one

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of fused oxazinones by cyclocondensation of ortho-amino

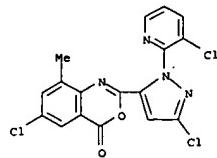
aromatic carboxylic acids with carboxylic acids)

RN 500011-83-6 CAPLUS

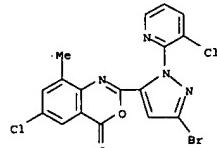
CN 4H-3,1-Benzoxazin-4-one,

6-chloro-2-(3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl)-8-methyl- (9CI) (CA INDEX NAME)

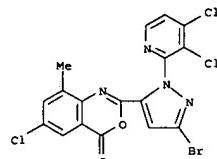
L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-87-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

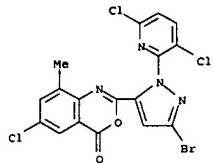


RN 652980-05-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3,4-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

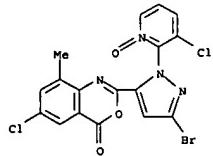


RN 652980-06-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3,6-dichloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 652980-09-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-1-oxido-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:412763 CAPLUS
 DOCUMENT NUMBER: 139:197419
 TITLE: Reactions of some (arylyhydrazone)furanones with amino acids and malononitrile
 AUTHOR(S): El-Kousay, Salah M.; Hashem, Ahmed I.; El-Torgoman, Abdel Moniem; Salama, Gamal M.
 CORPORATE SOURCE: Faculty of Science, Minufiya University, Cairo, Egypt
 SOURCE: Afinidad (2003), 60(503), 61-64
 PUBLISHER: CODEN: AFINAE; ISSN: 0001-9704
 Sarria
 DOCUMENT TYPE: Asociacion de Quimicos del Instituto Quimico de
 LANGUAGE: Journal
 OTHER SOURCE(S): English
 GI CASREACT 139:197419

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Reaction of (arylyhydrazone)furanones I (R = H, Cl; R₁ = H, Me, Cl, OMe) with glycine in AcOH gave (pyrazolylcarbonyl)glycines II (same R, R₁).

II

were converted to

4-arylidene-2-(1,5-dihydropyrazol-3-yl)-2-oxazolin-5-ones III by reaction with benzaldehyde in acetic anhydride. I were rearranged with anthranilic acid in the presence of acetic acid to afford N-(1,5-dihydropyrazol-3-ylcarbonyl)anthranilic acids. These anthranilic acids could be cyclized with acetic anhydride to give pyrazolylbenzoxazinones (IV). Malononitrile in dioxane containing sodium metal rearranged I to (pyrazolylcarbonyl)malononitriles. Et cyanoacetate did not react with I but the basic medium of the reaction converted I to pyrazolcarboxylic acids.

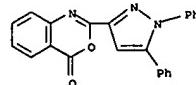
IT 583825-78-9P 583825-79-0P 583825-80-3P

583825-81-4P 583825-82-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (pyrazole derivs. via reaction of (arylyhydrazone)furanones with amino acids, malononitrile, and Et cyanoacetate)

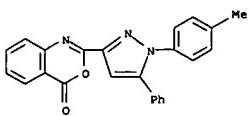
RN 583825-78-9 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(1,5-diphenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

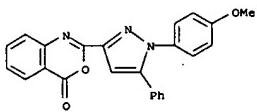


RN 583825-79-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(4-methylphenyl)-5-phenyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

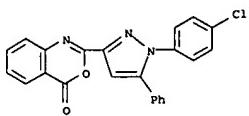
L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 583825-80-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

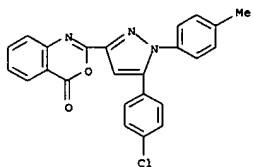


RN 583825-81-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(4-chlorophenyl)-5-phenyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 583825-82-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[5-(4-chlorophenyl)-1-(4-methylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003-261833 CAPLUS

DOCUMENT NUMBER: 138:287669

TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides

INVENTOR(S): Zimmerman, William Thomas

PATENT ASSIGNEE(S): E.I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

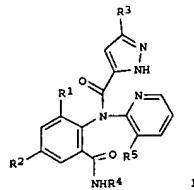
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027099	A1	20030403	WO 2002-US28274	20020906
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, PI, GB, GD, GE, GH, GM, HR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NS, SN, TD, TG				
EP 1438305	A1	20040721	EP 2002-799567	20020906
EP 1438305	B1	20060833		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, PI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012695	A	20041019	BR 2002-12695	20020906
CN 1556806	A	20041222	CN 2002-818570	20020906
JP 2005505576	T	20050224	JP 2003-530687	20020906
US 2004186141	A1	20040923	US 2004-485093	20040126
US 7179824	B2	20070220		
IN 2004M00089	A	20050429	IN 2004-MN89	20040205
PRIORITY APPLN. INFO.:			US 2001-324011P	P 20010921
			WO 2002-US28274	W 20020906

OTHER SOURCE(S): MARPAT 138:287669
GI

L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

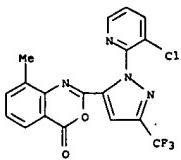


AB Title compds. (I: R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, alkylsulfonyl, haloalkylthio, alkoxy carbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, alkylaminol, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.), were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-Pyrrole-5-carboxylic acid (preparation given) was stirred with (COCl)2 and cat. DMP in CH2Cl2 to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me2CHNH2 to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methyl ethyl)aminolcarbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methyl ethyl)aminolcarbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave 510% feeding damage.

IT 500011-82-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides)

RN 500011-82-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



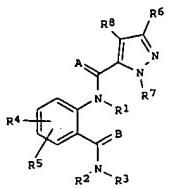
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:242097 CAPLUS
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant propagation material containing anthranilamides
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXDA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024222	A1	20030327	WO 2002-US30302	20020910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2458163	A1	20030327	CA 2002-2458163	20020910
EP 1427285	A1	20040616	EP 2002-775972	20020910
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012993	A	20040817	BR 2002-12993	20020910
JP 2005502716	T	20050127	JP 2003-528126	20020910
JP 3770495	B2	20060426		
HU 200401893	A2	20050128	HU 2004-1893	20020910
NZ 532269	A	20051028	NZ 2002-532269	20020910
CN 1713819	A	20051228	CN 2002-818578	20020910
RU 2292128	C2	20070127	RU 2004-111986	20020910
ZA 2004000413	A	20050120	ZA 2004-413	20040120
US 2004209923	A1	20041021	US 2004-485125	20040126
IN 2005MM00443	A	20050930	IN 2005-MN443	20050517
PRIORITY APPLN. INFO.: US 2001-323941P				P 20010921
				WO 2002-US30302 W 20020910

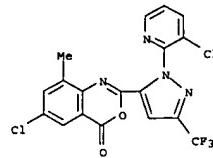
OTHER SOURCE(S): MARPAT 138:267201
GI

L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

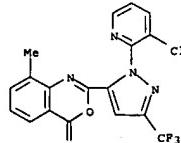


AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.
IT 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-82-5P 500011-83-6P 500011-87-0P 500011-98-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of anthranilamide compds. as pesticides for plant propagation material)
RN 438450-40-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

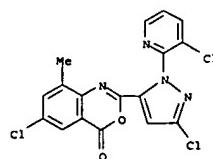
L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-82-5 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

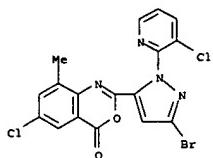


RN 500011-83-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

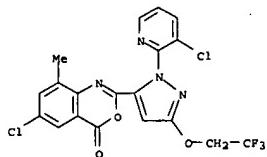


RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-98-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethoxy)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



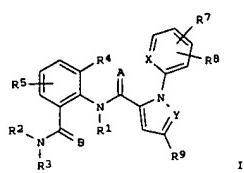
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:154408 CAPLUS
 DOCUMENT NUMBER: 138:205054
 TITLE: Preparation of substituted anthranilamides for controlling invertebrate pests
 INVENTOR(S): Finkelstein, Bruce Lawrence; Lahn, George Philip; McCann, Stephen Frederick; Song, Ying; Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 105 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016284	A1	20030227	WO 2002-US26960	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EP 1417176	A1	20040512	EP 2002-761486	20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, PI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012183	A	20040824	BR 2002-12183	20020813
JP 2005503384	T	20050203	JP 2003-521201	20020813
CN 1653051	A	20050810	CN 2002-816050	20020813
IN 2004MN00027	A	20050429	IN 2004-MN27	20040112
US 2005282868	A1	20051222	US 2004-486312	20040722
			US 2001-312680P	P 20010816
				WO 2002-US26960
				W 20020813

PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 138:205054
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L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



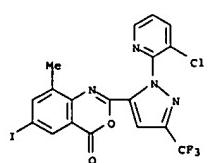
AB The title compds. [I; A, B = O, S; X = N, CH; R1 = H, alkyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, cycloalkyl, etc.; R3 = H, alkyl, alkenyl, etc.; NR2R3 = (un)substituted ring optionally containing addnl. heteroatoms; R4 = alkyl, haloalkyl, CN, etc.; R5, R8 = H, alkyl, haloalkyl,

etc.; R7 = H, alkyl, haloalkyl, etc.; R9 = CF₃, OC(F)₂, OCF₂, etc.; R10 = H, alkyl, haloalkyl, etc.], useful for controlling an invertebrate pest, were prepared. E.g., a 3-step synthesis of I [A, B = O; X = CH; Y = N;

R1 = H; R2 = iso-Pr; R3 = H; R4 = Me; R5 = H; R7 = 2-(CH₂OH); R8 = H; R9 = CF₃; starting from 1-(2-(methoxycarbonyl)phenyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid and 2-amino-3-methylbenzoic acid, which provided excellent levels of plant protection (20% or less damage) in bioass. tests, was given.

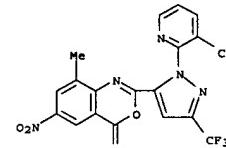
IT 500028-90-OP 500028-92-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of substituted anthranilamides for controlling invertebrate pests)

RN 500028-90-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 500028-92-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-6-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:154155 CAPLUS

DOCUMENT NUMBER: 138:200332

TITLE: Arthropodicidell anthranilamides

INVENTOR(S): Lehm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015519	A1	20030227	WO 2002-US25615	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EG 23419	A	20050704	EG 2002-893	20020810
TW 225774	B	20050101	TW 2002-91118100	20020812
CA 2454485	A1	20030227	CA 2002-2454485	20020813
EP 1416797	A1	20040512	EP 2002-752811	20020813
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012023	A	20040803	BR 2002-12023	20020813
JP 2004538328	T	20041224	JP 2003-520290	20020813
JP 3729825	B2	20051221		
NZ 530443	A	20050729	NZ 2002-530443	20020813
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
CN 1678192	A	20051005	CN 2002-815924	20020813
RU 2283840	C2	20060920	RU 2004-107505	20020813
HU 20060675	A2	20070129	HU 2006-675	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 2004198984	A1	20041007	US 2004-483168	20040107
JP 2005041880	A	20050217	JP 2004-258923	20040906
PRIORITY APPLN. INFO.:				
			US 2001-311919P	P 20010813
			US 2001-324128P	P 20010921
			US 2002-369661P	P 20020402
			JP 2003-520290	A3 20020813
			WO 2002-US25615	W 20020813

OTHER SOURCE(S): MARPAT 138:200332

L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

GI



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrates. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics. *Bacillus thuringiensis* sp. aizawai.

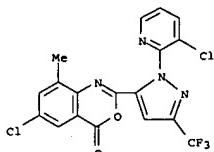
B. *Bacillus thuringiensis* sp. kurstaki, B. *thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

IT 438450-40-9, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-83-6P 500011-87-0P 500011-98-3P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arthropodicidal anthranilamide)

RN 438450-40-9 CAPLUS

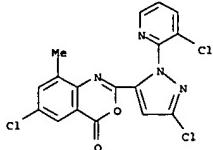
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



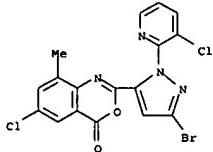
RN 500011-83-6 CAPLUS

L4 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

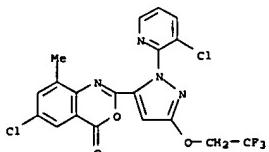
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[3-chloro-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 500011-87-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)



RN 500011-98-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(2,2,2-trifluoroethoxy)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

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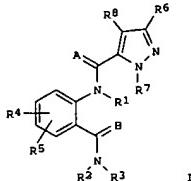
03/06/2007

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:154154 CAPLUS
 DOCUMENT NUMBER: 138:200331
 TITLE: Method for controlling particular insect pests by applying anthranilamide compounds
 INVENTOR(S): Lahm, George Philip; McCann, Stephen Frederick; Patel,
 Kanu Meganbhai; Selby, Thomas Paul; Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 150 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015518	A1	20030227	WO 2002-US25613	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2454302	A1	20030227	CA 2002-2454302	20020813
EP 1416796	A1	20040512	EP 2002-752809	20020813
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
HU 200401043	A2	20040928	HU 2004-1043	20020813
BR 2002012187	A	20040105	BR 2002-12187	20020813
CN 1541063	A	20041027	CN 2002-815930	20020813
JP 2004538327	T	20041224	JP 2003-520289	20020813
JP 3689817	B2	20050831		
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
RU 2262231	C1	20051020	RU 2004-107513	20020813
NZ 530442	A	20060728	NZ 2002-530442	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 2005075372	A1	20050407	US 2004-483115	20040107
JP 2005041880	A	20050217	JP 2004-258923	20040906
PRIORITY APPLN. INFO.:				
		US 2001-311919P	P	20010813
		US 2001-324173P	P	20010921
		US 2001-324128P	P	20010921
		US 2002-369661P	P	20020402
		JP 2003-520290	A3	20020813

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 WO 2002-US25613 W 20020813

OTHER SOURCE(S): MARPAT 138:200331
 GI



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

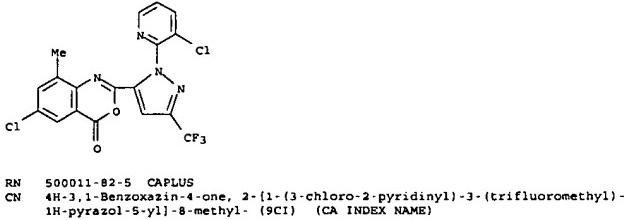
IT 438450-40-9: 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 500011-82-5P 500011-83-6P 500011-87-0P 500011-98-3P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of anthranilamide compds. as insecticides)

RN 438450-40-9 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-82-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

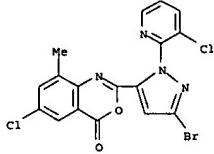


RN 500011-83-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)

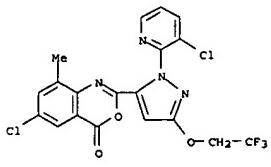


RN 500011-87-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[1-(3-bromo-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 500011-98-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:76617 CAPLUS

DOCUMENT NUMBER: 138:131087

TITLE: New use

INVENTOR(S): Hickson, Ian david; Hammonds, Timothy Robin
Cancer Research Technology Limited, UK

PATENT ASSIGNEE(S): PCT Int. Appl., 150 pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007955	A2	20030130	WO 2002-GB3342	20020722
WO 2003007955	A3	20030501		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2001-306679P P 20010720

OTHER SOURCE(S): MARPAT 138:131087

AB The present invention provides the use of a low mol. weight mammalian AP endonuclease inhibitor for the preparation of a medicament for the treatment of cancer. Markushes included.

IT 218457-40-0 491861-59-7 491861-68-8

491861-78-0

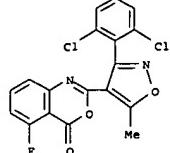
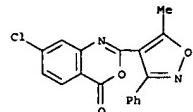
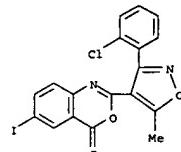
RL: PAC (Pharmacological activity); BIOL (Biological study)
(low mol. weight mammalian AP endonuclease inhibitors as antitumor agents)

RN 218457-40-0 CAPLUS

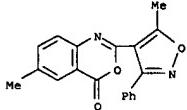
CN 4H-3,1-Benzoxazin-4-one,

2-[3-(2,6-dichlorophenyl)-5-methyl-4-isoxazolyl]-5-fluoro- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 491861-59-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 7-chloro-2-(5-methyl-3-phenyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)RN 491861-68-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]-6-iodo- (9CI) (CA INDEX NAME)RN 491861-78-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(5-methyl-3-phenyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:22872 CAPLUS

DOCUMENT NUMBER: 138:89816

TITLE: Preparation of pyridine ring-containing benzoxazinone derivatives for treatment of viral infections

INVENTOR(S): Takahashi, Kataru; Watanabe, Naoto; Saito, Yasuyoshi

PATENT ASSIGNEE(S): Asahi Kasei Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

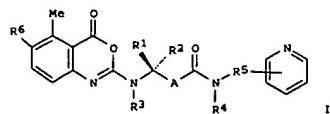
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003002558	A1	20030109	WO 2002-JP5795	20020611

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM; AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, PR, GB, GR, IR, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1403269 A1 20040331 EP 2002-733468 20020611
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IR, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2004116420 A1 20040617 US 2003-480451 20031212
PRIORITY APPLN. INFO.: JP 2001-179282 A 20010613
JP 2001-379282 A 20011212
WO 2002-JP5795 W 20020611

OTHER SOURCE(S): MARPAT 138:89816
GIAB The title compd. I [R1, R2 = H, alkyl, etc.; or R1CR2 = cycloalkyl; A = (CH2)n; n = 0 or 1; R3 = H, alkyl, etc.; R4 = H, alkyl, alkenyl, etc.; R5 = alkylene; or NR4R5 = heterocyclyl; R6 = H, halo, etc.] are prepared. I have excellent protease inhibitory activity. I are useful in the treatment of viral infectious diseases, in particular herpesvirus infections. Compds. of this invention in vitro showed EC90 values of 3.2 μ M to > 12 μ M against HSV-1.

IT 484010-49-3P 484010-50-6P 484010-51-7P

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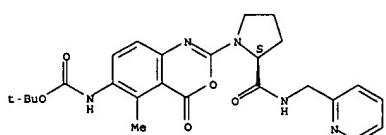
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 484010-52-0P CAPLUS 484010-53-9P 484010-54-0P
 484010-55-1P 484010-56-2P 484010-65-3P
 484010-66-4P 484010-67-5P 484010-68-6P
 484010-69-7P 484010-70-0P 484010-71-1P
 484010-72-2P 484010-73-3P 484010-74-4P
 484010-75-5P 484010-76-6P 484010-77-7P
 484010-78-8P 484010-79-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (prepn. of pyridine ring-contg. benzoxazinone derivs. for treatment of viral infections)

RN 484010-49-3 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

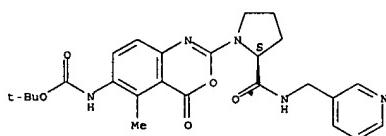
Absolute stereochemistry.



RN 484010-50-6 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(3-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

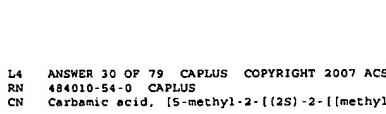
Absolute stereochemistry.



RN 484010-51-7 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(4-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



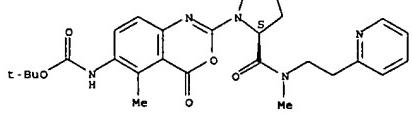
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 484010-54-0 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl[2-(2-

pyridinyl)ethyl]amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

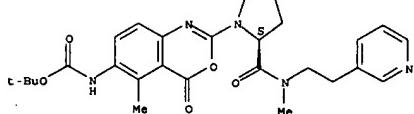


RN 484010-55-1 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl[2-(3-

pyridinyl)ethyl]amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

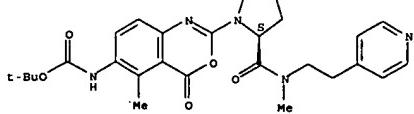


RN 484010-56-2 CAPLUS

CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl[2-(4-

pyridinyl)ethyl]amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

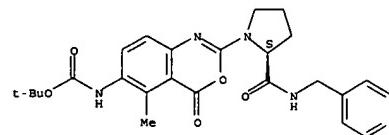


RN 484010-65-3 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(2-

Habte

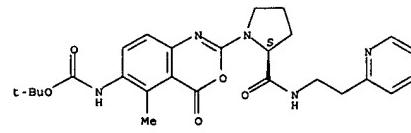
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.



RN 484010-52-8 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(2-(2-pyridinyl)ethyl]amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

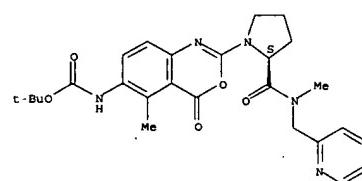
Absolute stereochemistry.



RN 484010-53-9 CAPLUS

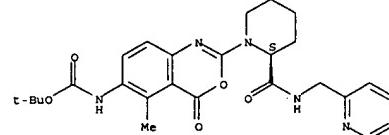
CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl(2-pyridinyl)ethyl)amino]carbonyl]-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 pyridinylmethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

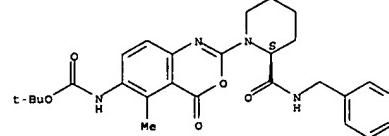
Absolute stereochemistry.



RN 484010-66-4 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(3-pyridinylmethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

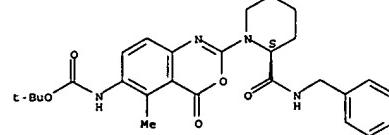
Absolute stereochemistry.



RN 484010-67-5 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(4-pyridinyl)ethyl]amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

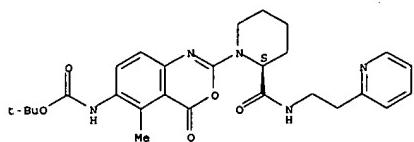


RN 484010-68-6 CAPLUS

CN Carbamic acid, [5-methyl-4-oxo-2-[(2S)-2-[(2-(2-pyridinyl)ethyl)amino]carbonyl]-1-piperidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

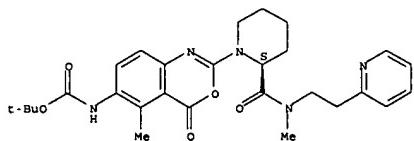
03/06/2007

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.



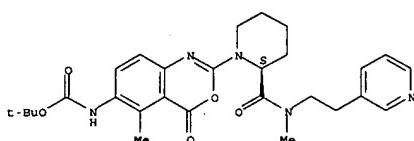
RN 484010-69-7 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl(2-(2-pyridinyl)ethyl)amino)carbonyl]-1-piperidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



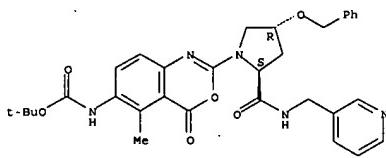
RN 484010-70-0 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl(2-(3-pyridinyl)ethyl)amino)carbonyl]-1-piperidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



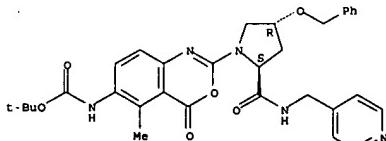
RN 484010-71-1 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S)-2-[(methyl(2-(4-

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



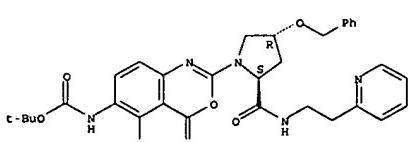
RN 484010-74-4 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylimethoxy)-2-[(4-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-75-5 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylimethoxy)-2-[(2-(2-pyridinyl)ethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

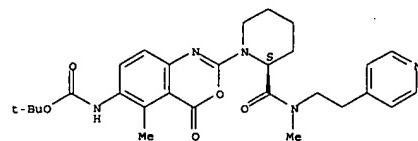


RN 484010-76-6 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[(methyl(2-(pyridinylmethyl)amino)carbonyl)-4-(phenylimethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Habte

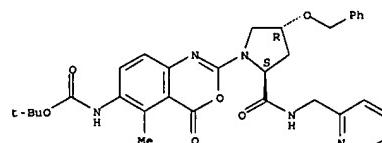
L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 pyridinyl)ethylamino)carbonyl)-1-piperidinyl)-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-72-2 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[(2-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

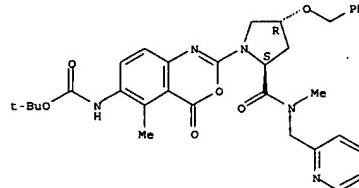
Absolute stereochemistry.



RN 484010-73-3 CAPLUS
 CN Carbamic acid, [5-methyl-4-oxo-2-[(2S,4R)-4-(phenylmethoxy)-2-[(3-pyridinylmethyl)amino]carbonyl]-1-pyrrolidinyl]-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

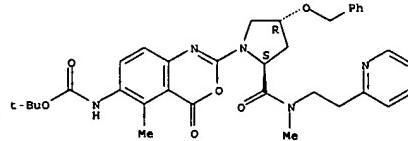
Absolute stereochemistry.

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.



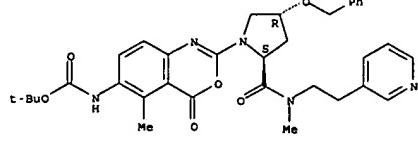
RN 484010-77-7 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[(methyl(2-(2-pyridinyl)ethyl)amino)carbonyl)-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 484010-78-8 CAPLUS
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[(methyl(2-(3-pyridinyl)ethyl)amino)carbonyl)-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

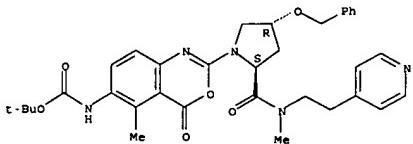


RN 484010-79-9 CAPLUS

03/06/2007

L4 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Carbamic acid, [5-methyl-2-[(2S,4R)-2-[(methyl[2-(4-pyridinyl)ethyl]amino)carbonyl]-4-(phenylmethoxy)-1-pyrrolidinyl]-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



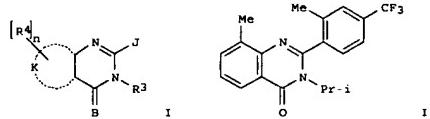
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:465981 CAPLUS
 DOCUMENT NUMBER: 137:47212
 TITLE: Preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests
 INVENTOR(S): Annis, Gary David; Myers, Brian James; Selby, Thomas Paul; Stevenson, Thomas Martin; Zimmerman, William Thomas
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 180 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002048115	A2	20020620	WO 2001-US46629	20011203
WO 2002048115	A3	20020906		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, AU 2002027243				
AU 2002027243 A5 20020624 AU 2002-27243 20011203				
EP 1341772 A2 20030910 EP 2001-996125 20011203				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, PI, RO, MK, CY, AL, TR				
JP 2004515543 T 20040527 JP 2002-549646 20011203				
US 2004110777 A1 20040610 US 2003-433368 20031014				
US 2000-254614P P 20001211				
PRIORITY APPLN. INFO.: WO 2001-US46629 W 20011203				

OTHER SOURCE(S): MARPAT 137:47212
 GI

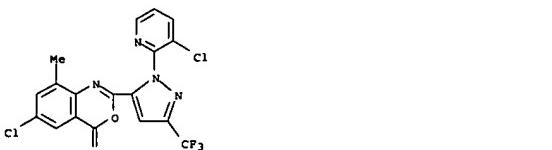


L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The title compds. (I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4), useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in test on diamondback moth (*Plutella xylostella*)/radish plant, was given. This invention also pertains to certain compds. I and compds. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents.

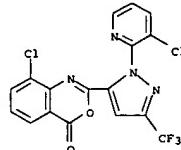
IT 438450-40-9P, 6-Chloro-2-[(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one
 438450-42-1P, 8-Chloro-2-[(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4H-3,1-benzoxazin-4-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); (preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests)

RN 438450-40-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl- (9CI) (CA INDEX NAME)



RN 438450-42-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 8-chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:435924 CAPLUS

DOCUMENT NUMBER: 137:306478

TITLE: Inhibition of cathepsin G by

2-amino-3,1-benzoxazin-4-

ones: kinetic investigations and docking studies

Gutschow, Michael; Kuerschner, Lars; Pietsch, Markus; Ambroek, Agnieszka; Neumann, Ulf; Gnther, Robert; Hofmann, Hans-Jrg

CORPORATE SOURCE: University of Bonn, Pharmaceutical Institute, Poppelsdorf, Bonn, D-53115, Germany

SOURCE: Archives of Biochemistry and Biophysics (2002), 402(2), 180-191

CODEN: ABBIA4; ISSN: 0003-9861

PUBLISHER: Elsevier Science

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:306478

AB A series of benzoxazinones was used to investigate the interaction of human cathepsin G with acyl-enzyme inhibitors. With respect to the primary specificity of cathepsin G, inhibitors with hydrophobic or basic residues at position 2 were included in the study. Parameters of the enzyme acylation and deacylation were determined by slow-binding kinetics in

the presence of a chromogenic substrate. For selected inhibitors, the time course of the enzyme-catalyzed conversion of the inhibitor was followed. This approach was suitable to elucidate a rate-determining deacylation step. Docking simulations of the noncovalent enzyme-inhibitor

complexes were performed and several clusters were analyzed for each inhibitor. The amino acids of the active site that participate in the binding of the inhibitors were determined. The arrangements in several clusters

of an inhibitor were not uniform with respect to the orientation by which the inhibitor was bound in the S1 pocket. Docking of the basic piperazine derivative 6 and 10 indicated an interaction with Glu 226 at the bottom of the S1 specificity pocket. The (N-methyl)benzylamino derivative 1 showed the strongest acylation rate ($k_{on}=1200\text{ M}^{-1}\text{ s}^{-1}$), which was attributed to a high extent of pseudo-productive orientations of the noncovalent preasocn. complex.

IT 471246-74-9P

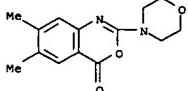
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(mol. modeling reveals uniform feature for participation of amino acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one analog inhibitors)

RN 233684-07-6 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



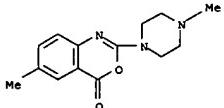
IT 471246-74-9P

RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(mol. modeling reveals uniform feature for participation of amino acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one analog inhibitors)

RN 471246-74-9 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



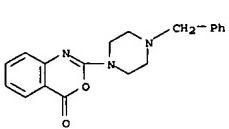
IT 471246-73-8P 471246-75-0P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(mol. modeling reveals uniform feature for participation of amino acids of active site of cathepsin G in binding 2-amino-3,1-benzoxazin-4-one, analog inhibitors)

RN 471246-73-8 CAPLUS

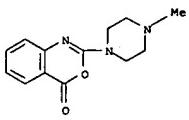
CN 4H-3,1-Benzoxazin-4-one, 2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 471246-75-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:314439 CAPLUS

DOCUMENT NUMBER: 135:146775

TITLE: Inhibition of human chymase by

2-amino-3,1-benzoxazin-

4-ones

AUTHOR(S): Neumann, U.; Schechter, N. M.; Gutschow, M.

CORPORATE SOURCE: Novartis Pharma AG, Basel, CH-4002, Switz.

SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(4), 947-954

CODEN: BMCECP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of 2-s-amino-4H-3,1-benzoxazin-4-ones was evaluated as acyl-enzyme inhibitors of human recombinant chymase. The compds. were also assayed for inhibition of human cathepsin G, bovine chymotrypsin, and

human leukocyte elastase. Introduction of an aromatic moiety into the 2-substituent resulted in strong inhibition of chymase, cathepsin G, and chymotrypsin. Extension of the N(Me)CH2Ph substituent by one methylene unit was unfavorable to inhibit these proteases. Towards chymase, 2-(N-benzy-N-methylamino)-4H-3,1-benzoxazin-4-one and

2-(N-benzy-N-methylamino)-6-methyl-4H-3,1-benzoxazin-4-one (I) were found

to exhibit Ki values of 11 and 17 nM, resp., and form stable acyl-enzymes with half-lives of 53 and 25 min, resp. Benzoxazinone I also inhibited the human chymase-catalyzed formation of angiotensin II from angiotensin I. A series of 2-s-amino-4H-3,1-benzoxazin-4-ones was evaluated as acyl-enzyme inhibitors of human chymase. The inhibition of the chymase-catalyzed formation of angiotensin II from angiotensin I by a selected benzoxazinone was shown.

IT 23494-28-2 123102-14-7 233684-07-6

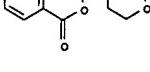
233684-08-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(inhibition of human chymase by 2-amino-benzoxazinones in relation to effect on other proteases and structure and angiotensin II formation)

RN 23494-28-2 CAPLUS

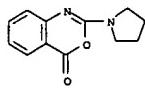
CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



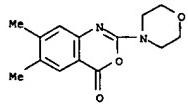
RN 123102-14-7 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

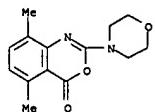
L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 233684-07-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

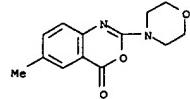


RN 233684-08-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 5,8-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



IT 352662-93-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (inhibition of human chymase by 2-aminobenzoxazinones in relation to effect on other proteases and structure and angiotensin II formation)
 RN 352662-93-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-methyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: THIS 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:56882 CAPLUS

DOCUMENT NUMBER: 134:96632

TITLE: Pyrazolylbenzoxazines or -benzothiazines and agrochemical microbicides containing them

INVENTOR(S): Niki, Toshio; Watanabe, Junichi; Hayazaka, Fumio; Suzuki, Hiroyuki; Yamakishi, Kazuhiko

PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

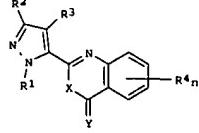
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001019691	A	20010123	JP 1999-194734	19990708
PRIORITY APPN. INFO.:			JP 1999-194734	19990708

OTHER SOURCE(S): MARPAT 134:96632
GIAB Agrochem. microbicides, especially useful for control of Pyricularia oryzae and wheat diseases, contain title compds. I (R¹ = H, Cl-6 alkyl,

(un)substituted Ph; R², R³ = H, halo, Cl-6 alkyl; R⁴ = H, halo, cyano, nitro, Cl-6 alkyl(carbonyl), alkoxy(carbonyl), haloalkyl, OH, CO₂H, (un)substituted phenyl(oxyl); X, Y = O, S; n = 0-4). 2-(3-Chloro-1-methylpyrazol-5-ylcarboxyamino)benzoic acid (1.6 g) was heated in Ac₂O under reflux for 2 h to give 1.07 g I (R¹ = Me, R² = Cl, R³ = H, X = Y = O, n = 0), which was applied to rice at 10 ppm to show 99% control of P. oryzae.

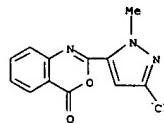
IT 319915-22-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazolylbenzoxazines or -benzothiazines as agrochem. microbicides)

RN 319915-22-5 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3-chloro-1-methyl-1H-pyrazol-5-yl)- (9CI)
(CA INDEX NAME)

L4 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

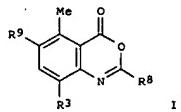


L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:50484 CAPLUS
 DOCUMENT NUMBER: 134:100878
 TITLE: Preparation of 2-aminobenzoxazinones for treatment of Herpes simplex virus infection.
 INVENTOR(S): Kawanishi, Masashi; Takahashi, Wataru
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Asahi Chemical Industry Co., Ltd.
 SOURCE: PCT Int. Appl., 48 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200103697	A1	20010118	WO 2000-US18817	20000711
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA,				
ZW	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CP, CG, CI, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2378014	A1	20010118	CA 2000-2378014	20000711
EP 1210088	A1	20020605	EP 2000-948615	20000711
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000012380	A	20020827	BR 2000-12380	20000711
JP 2003504334	T	20030204	JP 2001-508977	20000711
AU 774370	B2	20040624	AU 2000-62089	20000711
ZA 200200311	A	20030114	ZA 2002-311	20020114
US 6806269	B1	20041019	US 2002-30414	20020524
AU 2004203884	A1	20040909	AU 2004-203884	20040813
US 2005032795	A1	20050210	US 2004-938501	20040913
PRIORITY APPLN. INFO.:			US 1999-142956P	P 19990712
			WO 2000-US18817	W 20000711
			US 2002-30414	A1 20020524

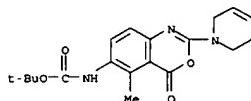
OTHER SOURCE(S): MARPAT 134:100878
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L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



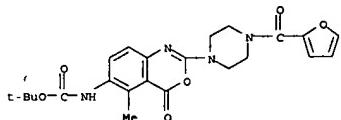
AB Title compd. I; R8 = amino optionally substituted by 2 alkyl, aralkyl, heterocyclalkyl, arylamino, aryl, halo, alkyl, etc.; R31 = alkyl; R32 = alkyl, aryl; R3 = H, dimethylmethoxy)carbonylaminol-2-methylbenzoate was stirred 3 h with p-nitrophenyl chloroformate in CH₂Cl₂ followed by addition of Me(PhCH₂)NH and stirring for 15 h. Tetrafluorophthalic anhydride in CH₂Cl₂ was added followed by 3 h stirring and addition of polyamine resin to give trimethylsilyl ethyl 3-[(1,1-dimethylmethoxy)carbonylaminol-2-methyl-6-[(1-methyl(phenylmethyl)aminol)carbonyl]aminobenzoate. This was stirred with Bu4NF in THF to give 3-[(1,1-dimethylmethoxy)carbonylaminol-2-methyl-6-[(1-methyl(phenylmethyl)aminol)carbonyl]aminobenzoic acid. The latter was stirred 2 h with P-EDC to give 6-[(1,1-dimethylmethoxy)carbonyl]aminol-5-methyl-2-[methyl(phenylmethyl)aminol]-4H-3-benzoxazin-4-one. This showed an EC50 = 1.1 μM against HSV. IT 319909-68-7P 319909-70-1P 319909-72-3P 319909-73-4P 319909-80-3P 319909-83-6P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPA (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 2-aminobenzoxazinones for treatment of Herpes simplex virus infection)

RN 319909-68-7 CAPLUS
 CN Carbamic acid, [2-(3,6-dihydro-1(2H)-pyridinyl)-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

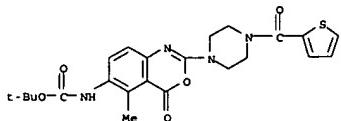


L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

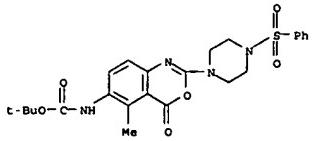
RN 319909-70-1 CAPLUS
 CN Carbamic acid, (2-[(2-furanylcarbonyl)-1-piperazinyl]-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 319909-72-3 CAPLUS
 CN Carbamic acid, (5-methyl-4-oxo-2-[(4-thienylcarbonyl)-1-piperazinyl]-4H-3,1-benzoxazin-6-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



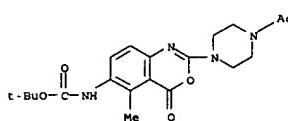
RN 319909-73-4 CAPLUS
 CN Carbamic acid, (5-methyl-4-oxo-2-[(phenylsulfonyl)-1-piperazinyl]-4H-3,1-benzoxazin-6-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 319909-80-3 CAPLUS
 CN Carbamic acid, (5-methyl-2-(4-morpholinyl)-4-oxo-4H-3,1-benzoxazin-6-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

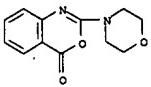
L4 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 319909-83-6 CAPLUS
 CN Carbamic acid, [2-(4-acetyl-1-piperazinyl)-5-methyl-4-oxo-4H-3,1-benzoxazin-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

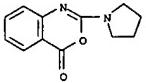


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:726575 CAPLUS
 DOCUMENT NUMBER: 134:239338
 TITLE: Novel bleach activators
 AUTHOR(S): Dixon, N. J.
 CORPORATE SOURCE: Warwick International Ltd, Holywell, UK
 SOURCE: Rivista Italiana delle Sostanze Grasse (2000), 77(3), 105-110
 CODEN: RISGAD; ISSN: 0035-6808
 PUBLISHER: Stazione Sperimentale per le Industrie degli Oli e dei Grassi
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The leading bleach activator in European laundry for the last 20 yr has been TAED. It is cost effective, environmentally friendly and provides effective bleaching as low as 40°C. The search for alternatives to TAED (the leading bleach activator in European laundry for the last 20 yr) has been going on since it was first launched on the detergents market in 1979. At Warwick International, we have tested around 1000 bleach activators and have assessed them for their wash performance, environmental effects, cost and ease of synthesis. To illustrate this work we will present the results of our investigations into the potent bleach activators 2-substituted-3,1-benzoxazinones.
 IT 23494-28-2 123102-14-7 123102-15-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (testing of benzoxazinones as activators for laundry bleaches)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

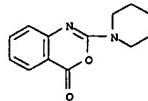


RN 123102-14-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 123102-15-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

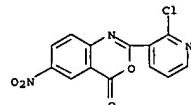
L4 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



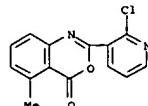
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:564504 CAPLUS
 DOCUMENT NUMBER: 133:317220
 TITLE: Inhibitors of the tissue factor/factor VIIa-induced coagulation: synthesis and in vitro evaluation of novel specific 2-aryl substituted 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Jakobsen, P.; Ritsmar Pedersen, B.; Persson, E.
 CORPORATE SOURCE: Novo Nordisk Park, Medicinal Chemistry Research, Novo Nordisk A/S, Maaloev, DK-2760, Den.
 SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(8), 2095-2103
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis of a series of novel 2-aryl substituted 4H-3,1-benzoxazin-4-ones and their evaluation as specific inhibitors of the Tissue Factor (TF)/Factor VIIa (FVIIa)-induced pathway of coagulation is reported. Inhibitory activities (IC50 values) in the range 0.17 to 40 μM on the activation of Factor X (FX) by the TF/FVIIa complex were found for compds. having one or two electroneg. substituents such as F, Cl and NO2 in the 2-aryl substituent. Different substitutions both electron-attracting and donating groups were allowed in the 5, 6, 7 and 8 positions. Several of the compds. showed a selectivity ratio towards FX and thrombin of >50, thus being the first small molc. described as potential drug for oral antithrombotic treatment without side effects such as bleeding which is observed especially with thrombin inhibitors.
 The best substituent pattern being the 2-aryl group substituted with: 2-F, 2,6-F2; or 2-FX; 6-Cl; together with electroneg. substitution in the 5, 6, 7, or 8 positions. 2-Heterosaryl substituents like thiienyl and furanyl were of low activity while some 2-(2-chloro-3-pyridinyl) derivs. had inhibitory activity <10 μM and a good selectivity.
 IT 244205-88-7P 244205-89-8P, 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- 244205-90-1P
 244206-14-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and synthesis of aryl substituted benzoxazinones as anticoagulants)
 RN 244205-88-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6-nitro- (9CI) (CA INDEX NAME)

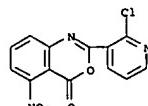
L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



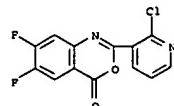
RN 244205-89-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- (9CI) (CA INDEX NAME)



RN 244205-90-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-nitro- (9CI) (CA INDEX NAME)

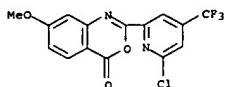


RN 244206-14-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6,7-difluoro- (9CI) (CA INDEX NAME)

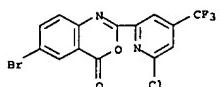


IT 302761-09-7 302761-14-4
 RL: BAC (Biological activity or effector, except adverse); BSU
 03/06/2007

L4 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 USES
 (Uses)
 (prepn. and synthesis of aryl substituted benzoxazinones as
 anticoagulants)
 RN 302761-09-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]-7-methoxy- (9CI) (CA INDEX NAME)



RN 302761-14-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-bromo-2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



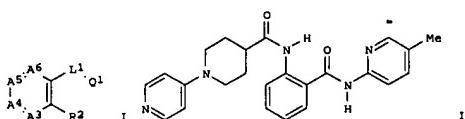
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2000:457059 CAPLUS
 DOCUMENT NUMBER: 133:89437
 TITLE: Preparation of heteroaryl-substituted aromatic amides as factor Xa inhibitors
 INVENTOR(S): Carl Penman; Franciskovich, Jeffry Bernard; Goodson, Theodore, Jr.; Hall, Steven Edward; Herron, David Kent; Joseph, Sajan Pariyadan; Klimkowksi, Valentine Joseph; Masters, John Joseph; Mendel, David; Milot, Guy; Pineiro-Nunez, Marta Maria; Sawyer, Jason Scott; Shuman, Robert Theodore; Smith, Gerald Floyd; Tebbe, Anne Louise; Tinsley, Jennifer Marie; Weir, Leonard Crayton; Wikle, James Howard; Wiley, Michael Robert; Yee, Ying Kwong
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA; Kyle, Jeffrey, Alan; et al.
 SOURCE: PCT Int. Appl., 403 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039118	A1	20000706	WO 1999-US29946	19991215
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361149	A1	20000706	CA 1999-2361149	19991215
EP 1140903	A1	20011010	EP 1999-964279	19991215
EP 1140903	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002533454	T	20021008	JP 2000-591029	19991215
AT 272633	T	20040815	AT 1999-964279	19991215
ES 2226405	T3	20050316	ES 1999-964279	19991215
US 6635657	B1	20031021	US 2001-857751	20010608
US 2004029874	A1	20040212	US 2003-629760	20030729
US 6759414	B2	20040706		
US 2005282862	A1	20051222	US 2003-629817	20030729
US 7129245	B2	20061031		
PRIORITY APPLN. INFO.:			US 1998-113556P	P 19981223
			WO 1999-US29946	W 19991215
			US 2001-857751	A3 20010608

OTHER SOURCE(S): MARPAT 133:89437
 GI

L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I: A3-A6, together with the two carbons to which they are attached, complete a substituted benzene in which A3 = CR3, A4 = CR4, A5 = CR5, and A6 = CR6 (wherein R3 = H, Me, MeO, etc.; one of R4 and R5 = H, alkyl, halo, etc.; the other of R4 and R5 = H; R6 = H, Me, F, etc.);

L1 = CONH; Q1 = 2-pyridinyl (un)substituted at the 5-position, 3-pyridinyl (un)substituted at the 6-position, 2-pyrimidinyl (un)substituted at the 5-position, etc.; R2 = L2Q2 (L2 = NHCO, NHCH2, OCH2, etc.; Q2 = (un)substituted piperidinyl, piperazinyl, Ph, etc.)] and their pharmaceutically acceptable salts, useful as inhibitors of factor Xa (no data), were prepared and formulated. E.g., a multi-step synthesis of

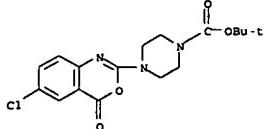
II.HCl was given. In general, compds. I are effective at 0.01-1000 mg/kg/day.

IT 280772-10-3P 280772-44-3P 280772-50-1P
 280772-56-7P 280772-62-5P 280772-68-1P
 280772-79-4P 280772-84-1P 280772-89-6P
 280772-94-3P 280773-03-7P 280773-10-6P
 280773-27-5P 280773-36-6P 280773-49-1P
 280773-54-8P 280773-69-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

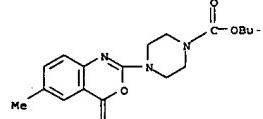
(preparation of heteroaryl-substituted aromatic amides as factor Xa inhibitors)

RN 280772-10-3 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(6-chloro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

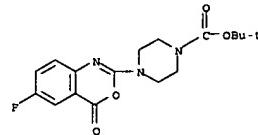


RN 280772-44-3 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(6-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

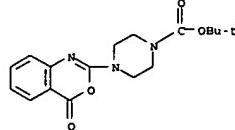
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280772-50-1 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(6-fluoro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

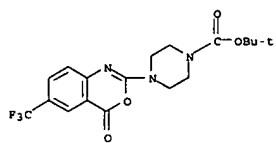


RN 280772-56-7 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

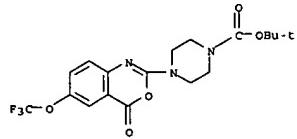


RN 280772-62-5 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[4-oxo-6-(trifluoromethyl)-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

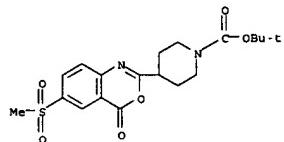
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280772-68-1 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[4-oxo-6-(trifluoromethoxy)-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

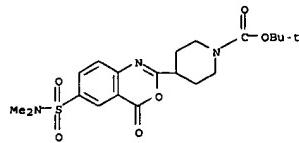


RN 280772-79-4 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[6-(methylsulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

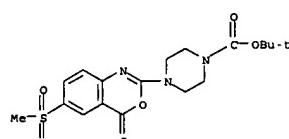


RN 280772-84-1 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[6-((dimethylamino)sulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

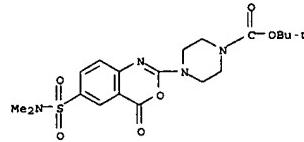
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



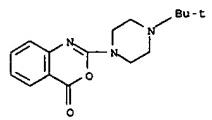
RN 280772-89-6 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-(6-(methylsulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



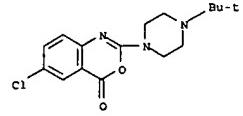
RN 280772-94-3 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[6-((dimethylamino)sulfonyl)-4-oxo-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



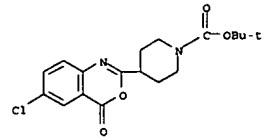
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280773-10-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6-chloro-2-[4-(1,1-dimethylethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

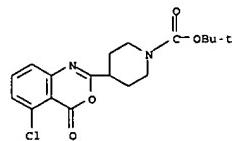


RN 280773-27-5 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(6-chloro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

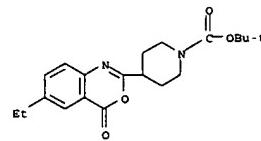


RN 280773-36-6 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(5-chloro-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

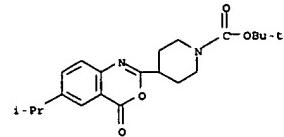
L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 280773-49-1 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(6-ethyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

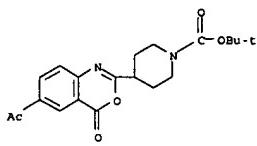


RN 280773-54-8 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(6-ethyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 280773-69-5 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(6-acetyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

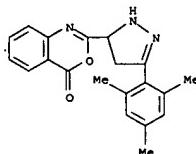


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:92318 CAPLUS
 DOCUMENT NUMBER: 132:279169
 TITLE: Synthesis and reactions of 2-[2-(2-(4,6-trimethylbenzoylvinyl)-4H-3,1-benzoxazin-4-one of expected biological activity
 AUTHOR(S): Abdel-Pattah, M. E.; Soliman, E. A.; Soliman, S. M.
 A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University, Ismailia, Egypt
 SOURCE: Egyptian Journal of Chemistry (1999), 42(6), 499-516
 PUBLISHER: National Information and Documentation Centre
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB β -(2,4,6-Trimethylbenzoyl)acryloyl chloride reacts with anthranilic acid to give the title benzoxazinone (I). I was cyclized with N_2H_4 to give the 3-aryl-5-pyrazolylbenzoxazinone. The behavior of this compound towards aromatic aldehydes, ketones, phthalic anhydride and phthalylamino acid chlorides has been investigated. Reactions of I with o-phenylenediamine, ammonia, Grignard reagents, Friedel-Crafts reagents and bromine are described. The products showed a range of antibacterial activity.

IT 234103-62-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of trimethylbenzoylvinylbenzoxazinones and pyrazolylbenzoxazinones with bactericidal activity)

RN 234103-62-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4,6-dihydro-3-(2,4,6-trimethylphenyl)-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

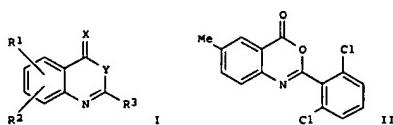


REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:626181 CAPLUS
 DOCUMENT NUMBER: 131:243274
 TITLE: Preparation of benzoxazinone derivatives as factor VII inhibitors for the treatment of coagulation-related diseases
 INVENTOR(S): Persson, Egon; Jakobsen, Palle; Worsaae, Helle
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXMD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948878	A1	19990930	WO 1999-DK138	19990317
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9928260	A	19991018	AU 1999-28260	19990317
US 6180625	BI	20010130	US 1999-274448	19990322
PRIORITY APPLN. INFO.:			DK 1998-413	A 19980324
			DK 1998-464	A 19980402
			DK 1998-1559	A 19981126
			US 1998-111673P	P 19980408
			US 1998-81068P	P 19980408
			WO 1999-DK138	W 19990317

OTHER SOURCE(S): MARPAT 131:243274
 GI



L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AB Benzoxazinone derivs. (I) [where X and Y = O, S, or NH; R1 and R2 = independently (un)substituted (cyclo)alkyl, alkenyl, or alkynyl, H, halogen, alkoxy, alkylthio, carboxy, carbamoyl, sulfamoyl, (alkyl)Ph, tetrazolyl, etc.]; R3 = (un)substituted (hetero)aryl, halogen, alkoxy, alkylthio, carboxy, carbamoyl, sulfamoyl, (alkyl)Ph, tetrazolyl, etc.) were prepared as inhibitors of factor VIIa-tissue factor activity. For example, 2,6-dichlorobenzoyl chloride was added to

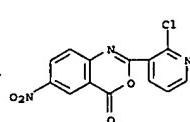
2-amino-5-methylbenzoic acid in toluene and TEA to yield 2-(2,6-dichlorophenyl)-6-methyl-4H-3,1-benzoxazin-4-one (II). Selected compds. of the invention were subjected to a FVIIa/TF-catalyzed FX activity assay or FVIIa/TF-induced plasma clotting assay. Example compds. gave IC50 values ranging from 0.32 to

5.6 μ M for the TF/FVIIa/FX assay and displayed clot ratios of 1.6 to > 30% in the clotting assay. The benzoxazinones are claimed to be useful for the treatment of coagulation-related diseases, such as deep vein thrombosis, pulmonary embolism, stroke, disseminated intravascular coagulation, vascular restenosis, platelet deposition, myocardial infarction, or atherosclerosis.

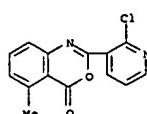
IT 244205-88-7P, 2-(2-Chloropyridin-3-yl)-6-nitro-4H-3,1-benzoxazin-4-one 244205-89-8P, 2-(2-Chloropyridin-3-yl)-5-methyl-4H-3,1-benzoxazin-4-one 244205-90-1P, 2-(2-Chloropyridin-3-yl)-5-nitro-4H-3,1-benzoxazin-4-one 244205-14-2P, 2-(2-Chloropyridin-3-yl)-6,7-difluoro-4H-3,1-benzoxazin-4-one

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (target compound; preparation of benzoxazinone derivs. as factor VII inhibitors for the treatment of coagulation-related diseases)

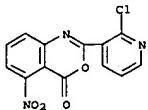
RN 244205-88-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6-nitro- (9CI) (CA INDEX NAME)



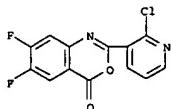
RN 244205-89-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 244205-90-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-5-nitro- (9CI) (CA INDEX NAME)



RN 244206-14-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)-6,7-difluoro- (9CI) (CA INDEX NAME)

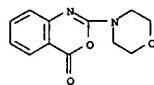


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:371533 CAPLUS
 DOCUMENT NUMBER: 131:129959
 TITLE: One-Pot Reactions of N-(Mesyloxy)phthalimides with Secondary Amines to 2-Ureidobenzamides, 2-Ureidobenzoic Acids, Ethyl 2-Ureidobenzoates, or Isatoic Anhydrides
 AUTHOR(S): Guetschow, Michael
 CORPORATE SOURCE: Institute of Pharmacy, University of Leipzig, Leipzig.
 SOURCE: S109-5115
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 131:129959
 AB The reaction of N-(mesyloxy)phthalimides with secondary amines was examined

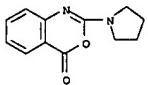
Transformations are accomplished by one-pot reactions to optionally afford corresponding 2-ureidobenzamides, 2-ureidobenzoic acids, Et 2-ureidobenzoates, or isatoic anhydrides, resp. The mechanism of the acid-catalyzed hydrolysis (or alcoholysis) of intermediate 2-ureidobenzamides to 2-ureidobenzoic acids (or esters) is discussed. A proton transfer mechanism involving the ureido moiety as an internal acid catalyst is proposed. Intermediate 2-ureidobenzoic acids undergo a further transformation to isatoic anhydrides. The utilization of the obtained 2-ureidobenzamides, 2-ureidobenzoic acids, and Et 2-ureidobenzoates to prepare 3,1-benzoxazin-4-ones is demonstrated.

IT 23494-28-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reaction of N-(mesyloxy)phthalimides with secondary amines)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

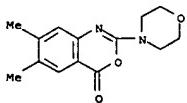


IT 123102-14-7P 233684-07-6P 233684-08-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (reaction of N-(mesyloxy)phthalimides with secondary amines)
 RN 123102-14-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

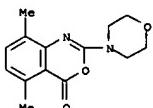
L4 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 233684-07-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 6,7-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

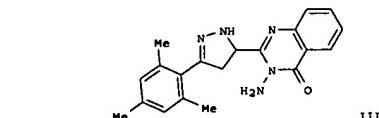
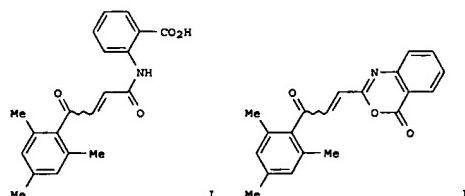


RN 233684-08-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 5,8-dimethyl-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:285715 CAPLUS
 DOCUMENT NUMBER: 131:129961
 TITLE: Synthesis and reactions of 2-[2-(2,4,6-trimethylbenzoyl)vinyl]-4H-3,1-benzoxazin-4-one and antimicrobial activity
 AUTHOR(S): Abdel-Fattah, M. E.; Soliman, E. A.; Soliman, S. M.
 A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University Ismailia, Cairo, Egypt
 SOURCE: 8(3), 177-182
 PUBLISHER: Indian Journal of Heterocyclic Chemistry (1999).
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 131:129961
 GI



AB β -(2,4,6-Trimethylbenzoyl)-acryloyl chloride reacts with anthranilic acid to give adduct I which is cyclized by the action of acetic anhydride to give the benzoxazinone II. Condensation of II with hydrazine hydrate gave pyrazole III. The behavior of III towards aromatic aldehydes, ketones,

phthalic Anhydride, and amino acid chlorides has been investigated. Reaction of II with o-phenylenediamine, ammonia, Grignard reagents, Friedel-Crafts reaction and bromine has been described. Some of the compds. were tested for antibacterial activity; some were active against gram-neg. and gram-pos. bacterial.

IT 234103-62-9P
 RL: BAC (Biological activity or effector, except adverse); BSU

03/06/2007

L4 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (prep. and bactericidal activity of benzoxazinones and quinazolinones)
 RN 234103-62-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4,5-dihydro-3-(2,4,6-trimethylphenyl)-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

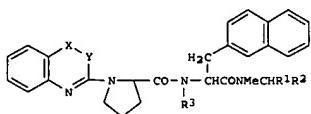


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1998:509212 CAPLUS
 DOCUMENT NUMBER: 129:149249
 TITLE: Preparation of heterocyclal prolyl(naphthyl)alaninamides as tachykinin antagonists
 INVENTOR(S): Walpole, Christopher Simon John; Prashad, Mahavir; Herz, Denis
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharmaceuticals UK Ltd.
 SOURCE: PCT Int. Appl., 27 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9831704	A2	19980723	WO 1997-EP7307	19971229
WO 9831704	A3	19980911		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW RN: GH, GM, KE, LS, MM, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2278057	A1	19980723	CA 1997-2278057	19971229
CA 2278057	C	20040504		
AU 9857642	A	19980807	AU 1998-57642	19971229
EP 964867	A2	19991222	EP 1997-953927	19971229
EP 964867	B1	20050309		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000516257	T	20001205	JP 1998-533609	19971229
AT 290546	T	20050315	AT 1997-953927	19971229
PT 964867	T	20050729	PT 1997-953927	19971229
ES 2239368	T3	20050916	ES 1997-953927	19971229
IN 1998MA00065	A	20050304	IN 1998-MA65	19980109
ZA 9800256	A	19980714	ZA 1998-256	19980113
US 6107293	A	20000822	US 1999-341626	19990714
JP 2006089499	A	20060406	JP 2005-344056	20051129
JP 3817256	B2	20060906		
PRIORITY APPLN. INFO.:			GB 1997-597	A 19970114
			JP 1998-533609	AJ 19971229
			WO 1997-EP7307	W 19971229
OTHER SOURCE(S):			MARPAT 129:149249	
GI				

L4 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

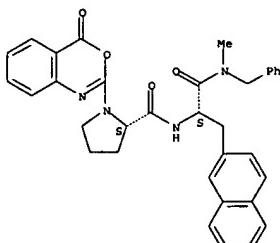


AB Title compds. I (X = CH₂, CO, bond; Y = O, S; R₁ = Ph; R₂ = H, Ph; R₃ = H, Me) and their pharmaceutically acceptable salts were prepared as tachykinin antagonists. Thus, I (X = CO, Y = O, R₁ = Ph, R₂ = R₃ = H) was

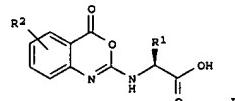
prepared by reaction of (S)-prolyl-(S)-3-(2-naphthyl)alanyl-N-benzyl-N-methylamide with 2-isocyanotobenzoyl chloride.
 IT 210775-87-4
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of heterocyclal prolyl(naphthyl)alaninamides as tachykinin antagonists)

RN 210775-87-4 CAPLUS
 CN L-Alaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-N-methyl-3-(2-naphthalenyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



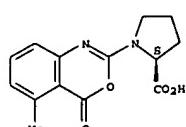
L4 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1998:243698 CAPLUS
 DOCUMENT NUMBER: 128:282812
 TITLE: Combinatorial approaches to pharmacophoric heterocycles: a solid-phase synthesis of 3,1-benzoxazine-4-ones
 AUTHOR(S): Gordeev, Mikhail F.
 CORPORATE SOURCE: Versicor, Inc, Fremont, CA, 94555, USA
 SOURCE: Biotechnology and Bioengineering (1998), 61(1), 13-16
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB An efficient solid-phase synthesis of 3,1-benzoxazine-4-ones is described. Immobilized amino acid based functionalized urea derive. undergo a high yielding heterocyclization under mild conditions in presence of coupling reagents (DIC, TscI/Py, or Ac2O) to afford 3,1-benzoxazine-4-ones I (R1 = CHMe₂; Me, PhCH₂, etc., R2 = H, Me, 6-OH, etc.). The method offers broad scope for structural and chemical diversity, and is amenable for combinatorial synthesis of 3,1-benzoxazine-4-ones libraries with potential for discovery of novel serine protease inhibitors.

IT 205656-62-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (solid phase synthesis of benzoxazinones as combinatorial approach)
 RN 205656-62-8 CAPLUS
 CN L-Proline, 1-(5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

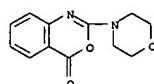


REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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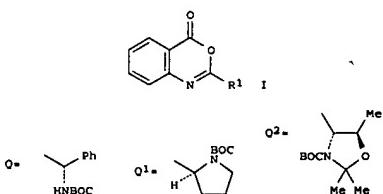
L4 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:723612 CAPLUS
 DOCUMENT NUMBER: 128:58885
 TITLE: Inhibition of cathepsin G by 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Gutschow, Michael; Neumann, Ulf
 CORPORATE SOURCE: Institute of Pharmacy, University of Leipzig,
 Leipzig,
 SOURCE: D-04103, Germany
 Bioorganic & Medicinal Chemistry (1997), 5(10),
 1935-1942
 CODEN: BMCECP; ISSN: 0960-0896
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 128:58885
 AB A series of 4H-3,1-benzoxazin-4-ones is reported that inhibit the serine proteases human cathepsin G and bovine chymotrypsin. The synthesis and kinetic parameters of the alkaline hydrolysis is described. These compds. act as acyl-enzyme inhibitors of both enzymes. The reaction of cathepsin G with 2-benzylamino-4H-3,1-benzoxazin-4-one was studied in detail. A partition in deacylation of the initially formed acyl-enzyme was observed, leading to the formation of 2-(3-benzylureido)benzoic acid and 3-benzylquinazoline-2,4-(1H,3H)-dione. A 6-Me substitution strongly increased the acylation rate of both proteases. Introduction of an aryl moiety into the 2-substituent led to compds. with Ki values toward cathepsin G in the nanomolar range. Their inhibitory potency is stronger than that of other synthetic inhibitors of cathepsin G.
 IT 23494-28-2P
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); PREP (preparation of and inhibition of cathepsin G and chymotrypsin by 4H-3,1-benzoxazin-4-ones)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



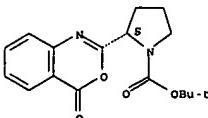
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:723315 CAPLUS
 DOCUMENT NUMBER: 128:22874
 TITLE: Efficient synthesis of biologically important chiral 2-alkylamino benzoxazinones
 AUTHOR(S): Mohapatra, Debendra K.; Datta, Apurba
 CORPORATE SOURCE: Organic III, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1997), 7(19), 2527-2530
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 128:22874
 GI



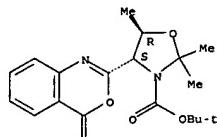
AB A novel general method has been developed for the synthesis of various amino acid derived chiral 2-substituted benzoxazinones, I (R1 = O, Q1, Q2, etc.), known inhibitors of standard serine proteases of the chymotrypsin superfamily.
 IT 199392-41-1P 199392-42-2P 199392-43-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of (alkylamino)benzoxazinones)
 RN 199392-41-1 CAPLUS
 CN 1-Pyrrolidinecarboxylic acid, 2-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



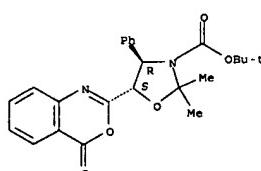
L4 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 199392-42-2 CAPLUS
 DOCUMENT NUMBER: 128:58885
 TITLE: 3-Oxazolidinecarboxylic acid, 2,2,5-trimethyl-4-(4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester, (4S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



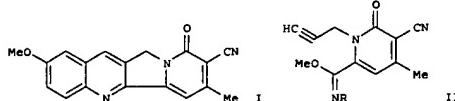
ACCESSION NUMBER: 199392-43-3 CAPLUS
 DOCUMENT NUMBER: 128:58885
 TITLE: 3-Oxazolidinecarboxylic acid, 2,2-dimethyl-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-4-phenyl-, 1,1-dimethylethyl ester, (4R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1996:487414 CAPLUS
 DOCUMENT NUMBER: 125:222232
 TITLE: Novel syntheses of camptothecin alkaloids. Part I.
 Intramolecular [4+2] cycloadditions of N-arylimidates
 and 4H-3,1-benzoxazin-4-ones as 2-aza-1,3-dienes
 AUTHOR(S): Fortunak, Joseph M. D.; Mastrocoda, Antonietta R.;
 Mellinger, Mark; Sisti, Nicole J.; Wood, Jeffery L.;
 Zhuang, Zhi-Ping
 CORPORATE SOURCE: Chem. Process Res. Dev., DuPont Merck Pharm. Co.,
 Deepwater, NJ, 08023-0999, USA
 SOURCE: Tetrahedron Letters (1996), 37(32), 5679-5682
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:222232
 GI

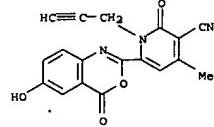


AB Intramolecular [4+2] cycloaddns. of both N-arylimidates and (4H)-3,1-benzoxazin-4-ones acting as 2-aza-1,3-dienes were described. Reaction with unactivated alkynes lead to pyrrolo[3,4-b]quinolines containing the ABC ring system of camptothecin. E.g., 10-methoxycamptothecin precursor I was prepared by intramol. [4+2] cycloaddn. of a 4:1 isomeric mixture of O-methylimidate II ($R = 4\text{-MeOC}_6\text{H}_4$), which had been prepared by Me_3OBF_4 O-methylation of the corresponding N-(4-methoxyphenyl)-amide, followed by elimination of methanol.

IT 181512-67-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of camptothecin analogs via intramol. [4+2] cycloaddns. of N-arylimidates and 4H-3,1-benzoxazin-4-ones as 2-aza-1,3-dienes)

RN 181512-67-4 CAPLUS
 CN 3-Pyridinecarboxonitrile,
 1,2-dihydro-6-(6-hydroxy-4-oxo-4H-3,1-benzoxazin-2-yl)-4-methyl-2-oxo-1-(2-propynyl)- (9CI) (CA INDEX NAME)

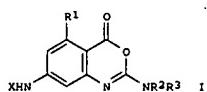
L4 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1996:241536 CAPLUS
 DOCUMENT NUMBER: 124:290265
 TITLE: Preparation of amino acid moiety-containing benzoxazines as elastase inhibitors
 INVENTOR(S): Oshida, Junichi; Kawabata, Hiroshi; Kato, Yoshinori;
 Kokubo, Masayuki; Ueshima, Yasuhide; Sato, Osami;
 Fujii, Katsuhiro
 PATENT ASSIGNEE(S): Teijin Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp., Division of Jpn. Kokai Tokkyo Koho Appl. NO. 91 504,791.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07316056	A	19951205	JP 1994-272320	19941107
PRIORITY APPLN. INFO.:			JP 1991-504791	19910215

OTHER SOURCE(S): MARPAT 124:290265
 GI



AB The title compds. I [$R_1 = \text{H}$, alkyl; $X = \text{YIA}_1$, $\text{Y}_2(\text{A}_2)\text{A}_3$; when X is YIA_1 : R_2 , $R_3 = \text{H}$, (carboxy)alkyl, or $\text{NR}_2\text{R}_3 = \text{ring}$; when X is $\text{Y}_2(\text{A}_2)\text{A}_3$: $R_2 = \text{alkyl}$, $R_3 = \text{H}$; $\text{Y}_1 = \text{amino-protecting group}$; $\text{Y}_2 = \text{H}$, sulfonyl; A_1 , $\text{A}_2 = \text{amino acid residue, etc.}; $\text{A}_3 = \text{lysine residue, etc.}; m = 0$ or 1 are prepared 7-(N-benzoyloxycarbonyl-L-phenylalanlyl)amino-5-methyl-2-(1-carboxyethyl)amino-4H-3,1-benzoxazin-4-one (preparation given) in vitro showed$

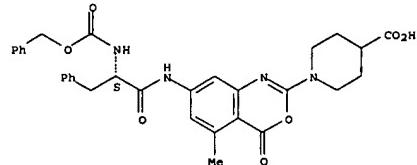
IC_{50} values of $5.1 \times 10^{-8} \text{ M}$ and $1.5 \times 10^{-6} \text{ M}$ against elastase and chymotrypsin, resp.

IT 138006-70-9
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of amino acid moiety-containing benzoxazines as elastase inhibitor)

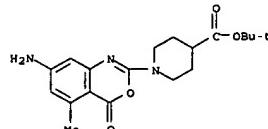
RN 138006-70-9 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[5-methyl-4-oxo-7-[(1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino)propyl]amino]-4H-3,1-benzoxazin-2-yl]- (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

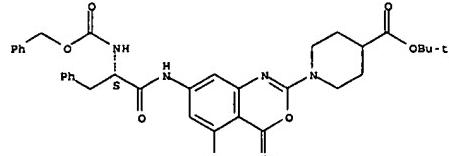


IT 175594-80-6P 175594-81-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of amino acid moiety-containing benzoxazines as elastase inhibitors)
 RN 175594-80-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-(7-amino-5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



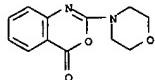
RN 175594-81-7 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-(5-methyl-4-oxo-7-[(1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino)propyl]amino)-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



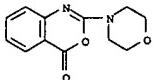
L4 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 49 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995:493544 CAPLUS
 DOCUMENT NUMBER: 123:4277
 TITLE: 3,1-Benzothiazin-4-ones and 3,1-benzoxazin-4-ones:
 highly different activities in chymotrypsin
 inactivation
 AUTHOR(S): Neumann, U.; Guteschow, M.
 CORPORATE SOURCE: Friedrich Miescher-Inst., Basel, 4002, Switz.
 SOURCE: Bioorganic Chemistry (1995), 23(1), 72-88
 PUBLISHER: Academic
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 3,1-Benzothiazin-4-ones are sulfur analogs of the potent serine protease
 inactivators of the 3,1-benzoxazin-4-one type, which acylate the serine
 residue within the active site of the enzymes. A series of
 2-amino-3,1-benzothiazinones was synthesized, but these compds. showed
 only very little inhibitory activity toward chymotrypsin, a model serine
 protease. Detailed investigations revealed that benzothiazinones and
 benzoxazinones react with identical mechanisms, but benzothiazinones
 acylate chymotrypsin with much lower rate consts. Investigations of
 nonenzymic hydrolysis showed the benzothiazinones to be intrinsically
 more stable than benzoxazinones. It was concluded from spectroscopic results,
 that benzoxazinones are highly activated due to the absence of ester-like
 resonance. 2-Benzoylamino-4H-3,1-benzoxazin-4-one was a new, highly
 active chymotrypsin inactivator. In contrast, benzothiazinones were
 resonance stabilized. The contribution of a resonance structure with an
 exocyclic oxanion to the overall structure of the benzothiazinones and
 its nonproductive binding to the active site explained their low reactivity
 toward chymotrypsin.
 IT 23494-28-2
 RL: BPR (Biological process); BSU (Biological study, unclassified); RCT
 (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or
 reagent)
 (3,1-Benzothiazin-4-ones and 3,1-benzoxazin-4-ones have highly
 different activities in chymotrypsin inactivation)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



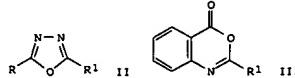
L4 ANSWER 50 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:285745 CAPLUS
 DOCUMENT NUMBER: 120:285745
 TITLE: Crystal structure of 2-(morpholin-4-yl)-4H-3,1-benzoxazin-4-one, C12H12N2O3
 AUTHOR(S): Pink, M.; Sieler, J.; Guteschow, M.
 CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Leipzig, Leipzig, D-04103, Germany
 SOURCE: Zeitschrift fuer Kristallographie (1993), 207(2), 319-21
 CODEN: ZEKRDZ; ISSN: 0044-2968
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The title compound is monoclinic, space group P21/c, with a 9.733(2), b 10.789(2), c 11.363(2) Å, β 112.576(9)*; Z = 4, R = 0.044. Atomic coordinates are given.
 IT 23494-28-2
 RL: PRP (Properties)
 (crystal structure of)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)

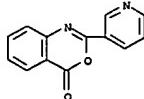


L4 ANSWER 51 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

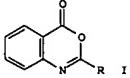
ACCESSION NUMBER: 1994:8535 CAPLUS
 DOCUMENT NUMBER: 120:8535
 TITLE: N,N-Dimethylchlorosulfitemethanaminium chloride as a dehydrating agent. An efficient one-pot synthesis of 1,3,4-oxadiazoles and 4H-3,1-benzoxazin-4-ones
 AUTHOR(S): Sain, Bir; Sandhu, Jagir S.
 CORPORATE SOURCE: Div. Drugs Pharm. Chem., Reg. Res. Lab., Jorhat, 785 006, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(11), 768-70
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:8535
 GI



AB RCONHNH2 (R = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 2-thienyl) cyclocondense with R1CO2H (R1 = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 4-MeOC6H4, 3-pyridyl, 2-thienyl) in the presence of Me2N-CHOSOCl Cl- (I) to yield 1,3,4-oxadiazoles II. The reaction between anthranilic acid and R1CO2H (R1 = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeC6H4, 4-MeOC6H4, 3-pyridyl, Me, 2-ClC6H4, 2-MeC6H4) in the presence of I affords benzoxazinones III.
 IT 53180-68-0
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

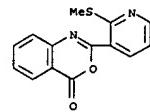


L4 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:128827 CAPLUS
 DOCUMENT NUMBER: 116:128827
 TITLE: 2-Aryl-substituted 4H-3,1-benzoxazin-4-ones as novel active substances for the cardiovascular system
 AUTHOR(S): Rose, Ulrich
 CORPORATE SOURCE: Inst. Pharm., Johannes Gutenberg-Univ., Mainz, D-6500/1, Germany
 SOURCE: Journal of Heterocyclic Chemistry (1991), 28(8), 2005-12
 DOCUMENT TYPE: CODEN: JHTCAD; ISSN: 0022-152X
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 116:128827
 GI

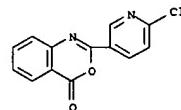


AB Cyclization of 2-H₂C₆H₄CO₂H with aromatic carboxylic acids in the presence of POCl₃ gave title compds. I (R = hetaryl, CH₂CH₂H₄F-4, 2,4-dimethoxyphenyl, etc.). The introduction of the phosphonate group, e.g. I [R = 4-C₆H₄CH₂P(O)(OR)₂, R₁ = Me, Et] was achieved by way of Wohl-Ziegler bromination and subsequent Michaelis-Arbuzov reaction with trialkyl phosphite. Pharmacol. investigations on isolated left atria, ileum specimens, and Langendorff hearts as well as in vivo circulatory studies on anesthetized rats revealed that the phosphonates exert calcium antagonistic effects. Whereas 2-(arylvinyl)benzoxazinones gave pronounced neg. inotropic effects, I (R = 2,4-(MeO)₂C₆H₃) exhibited relaxing effects on smooth musculature in particular and markedly increased the coronary flow through Langendorff hearts.
 IT 139355-74-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and cardiovascular activity of)
 RN 139355-74-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-(methylthio)-3-pyridinyl)- (9CI) (CA INDEX NAME)

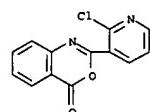
L4 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 76903-55-4P 139355-81-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 76903-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 139355-81-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:21062 CAPLUS
 DOCUMENT NUMBER: 116:21062
 TITLE: Preparation of 7-(peptidylamino)-4H-3,1-benzoxazin-4-one compound and elastase inhibitor composition containing same
 INVENTOR(S): Oshida, Junichi; Kawabata, Hiroshi; Kato, Yoshinori; Kokubo, Masayuki; Uejima, Yasuhide; Sato, Osami; Fujii, Katsuhiko
 PATENT ASSIGNEE(S): Teijin Ltd., Japan
 SOURCE: PCT Int. Appl., 101 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9112245	A1	19910822	WO 1991-JP183	19910215
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, NL, SE				
CA 2051115	A1	19910816	CA 1991-2051115	19910215
AU 9173250	A	19910903	AU 1991-73250	19910215
AU 635403	B2	19930318		
EP 466944	A1	19920122	EP 1991-904621	19910215
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
PRIORITY APPLN. INFO.:			JP 1990-32440	A 19900215
			WO 1991-JP183	A 19910215

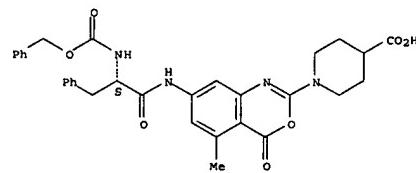
OTHER SOURCE(S): MARPAT 116:21062
 GI For diagram(s), see printed CA Issue.
 AB The title compds. [I: X = Y1A1, Y2(A2)mA3; A1 = amino acid residue, peptide residue comprising 2 or 3 amino acid residues; A2 = Gly, Ala, Val, Leu, dipeptide residue containing these amino acid residues; A3 = (side-chain protected) Lys, Glu, Or Asp; Y1 = amino-protecting group; Y2 = H, SO₃H; provided that when the side-chain of A3 is protected, Y2 = H; m = 0, 1; when X = Y1A1, R2 = alkyl containing 1 or 2 CO₂H, and R3 = H, alkyl containing 1 or 2 alkyl or CO₂H, or NR2R3 forming a 6- to 7-membered ring optionally substituted with 1 or 2 alkyl or CO₂H; when X = Y2(A2)mA3, R2 = alkyl and R3 = H], which show particularly a selective inhibiting effect on a human leukocyte elastase and excellent H₂O-solubility and residence in the lung tissue, are prepared. Thus, treatment of BOC-Lys(CO₂Me)₃-OH with iso-BuO₂CCl in THF containing N-methylmorpholine at -15° followed by I (R1 = Me, R2 = Me₂CH, R3 = X = H) (preparation given) gave I (R1, R2, R3 = unchanged; X = BOC-Lys(OCH₃₃)) which was deprotected with 4N HCl in dioxane, treated with Me₃SiNHNSiMe₃ in CH₂Cl₂, and then condensed with 4-ClC₆H₄SO₂Cl in the presence of Et₃N to give I [R1, R2, R3 = unchanged; X = p-ClC₆H₄SO₂-Lys] (II). II in vitro inhibited human purulent sputum elastase and α-chymotrypsin with IC₅₀ of 2.9 + 10⁻⁹ and 4.9 + 10⁻⁶ M and 1690 times selectivity for the elastase.
 IT 138006-70-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)

Habte

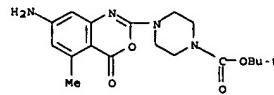
L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 138006-70-9 CAPLUS
 CN 4-Piperidinocarboxylic acid, 1-[5-methyl-4-oxo-7-[(1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino)propyl]amino]-4H-3,1-benzoxazin-2-yl]- (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



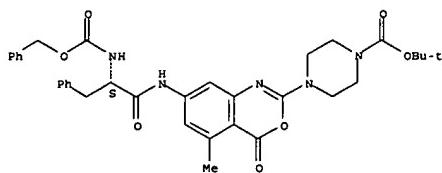
IT 138006-93-6P 138006-94-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate for benzoxazinone derivative elastase inhibitor)
 RN 138006-93-6 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-((7-amino-5-methyl-4-oxo-4H-3,1-benzoxazin-2-yl)-, 1,1-dimethyllethyl ester (9CI) (CA INDEX NAME)



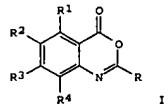
RN 138006-94-7 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[5-methyl-4-oxo-7-[(1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino)propyl]amino]-4H-3,1-benzoxazin-2-yl]-, 1,1-dimethyllethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:55743 CAPLUS
 DOCUMENT NUMBER: 112:55743
 TITLE: Design and synthesis of 4H-3,1-benzoxazin-4-ones as potent alternate substrate inhibitors of human leukocyte elastase
 AUTHOR(S): Krantz, Allen; Spencer, Robin W.; Tam, Tim F.; Liak, Teng Jiam; Copp, Leslie J.; Thomas, Everton M.; Rafferty, Steven P.
 CORPORATE SOURCE: Syntex Res., Mississauga, ON, L5N 3X4, Can.
 SOURCE: Journal of Medicinal Chemistry (1990), 33(2), 464-79
 DOCUMENT TYPE: CODEN: JMCMAR; ISSN: 0022-2623
 LANGUAGE: Journal
 OTHER SOURCE(S): English
 GI CASREACT 112:55743



AB 4H-3,1-Benzoxazin-4-ones are alternate substrates of the serine proteinase human leukocyte elastase (HL elastase), and form acyl enzyme intermediates during enzyme catalysis. A large variety of benzoxazinones have been synthesized using specific methods that have been adapted to achieve the pattern of ring substitution dictated by theor. considerations. The results of the inhibition of HL elastase by 175 benzoxazinones are reported herein with reference to hydrophobicity consts. D, alkaline hydrolysis rates KOH-, inhibition consts. Ki, and their component acylation and deacylation rate consts., kon and koff, resp. The ranges for the compds. are considerable; alkaline hydrolysis rates and kon span 6, koff covers 5, and Ki spans 8 orders of magnitude. Multiple regression on this large data set has been used to isolate the contributions of electronic and steric effects, as well as other factors specific to compound stability and elastase inhibition. Essentially, a simple electronic parameter is sufficient to account for almost all the variance in the alkaline hydrolysis data indicating that electronic factors are the major determinants of this type of benzoxazinone reactivity. Factors that significantly enhance the potency of benzoxazinones I, are R1 alkyl groups, and electron withdrawal by R2. Bulk in R3 and R4 and compound hydrophobicity are not significant, but substitution in R2 is highly unfavorable as are substituents linked via C to C2. The physicochem.

L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

factors that underlie these trends in Ki are further analyzed in terms of equations that describe kon and koff. A conclusion that emerges is that chem. stable, potent benzoxazinone inhibitors of HL elastase with inhibition consts. in the nanomolar range can be designed with (1) R1 alkyl groups to inhibit enzyme-catalyzed deacylation, (2) small alkyl substituents linked via heteroatoms to C2 to enhance acylation and limit deacylation rates, and (3) strongly electron-donating groups at C7 to stabilize the oxazinone ring to nucleophilic attack. Thus,

2-(isopropylamino-5-n-propyl-7-(dimethylamino)benzoxazinone I (R = NHCHMe₂, R1 = Pr, R2 = NMe₂, R4 = H) has KOH- = 0.01 M-1s-1, which extrapolates to a half-life at pH 7.4 of over 0.5 yr, and

2-ethoxy-5-ethylbenzoxazinone I (R = OEt, R1 Et, R2 = R3 = R4 = H) has

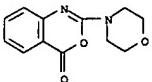
Ki = 42 picomolar.

IT 23494-28-2P 100075-85-2P 100075-86-3P
 100075-87-4P 100075-88-5P 100163-85-7P
 123102-14-7P 123102-15-8P 123102-24-9P
 123102-25-0P 123102-26-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and human proteinase leukocyte elastase inhibiting activity of)

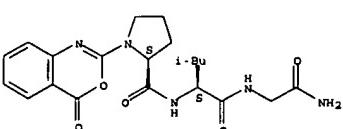
RN 23494-28-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 100075-85-2 CAPLUS
 CN Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI) (CA INDEX NAME)

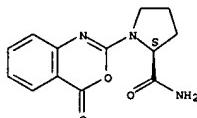
Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI) (CA INDEX NAME)

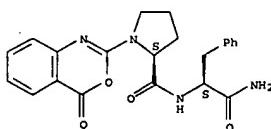
Absolute stereochemistry.

L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



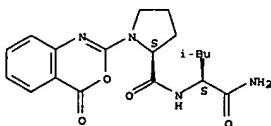
RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



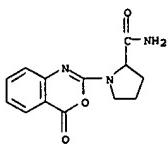
RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

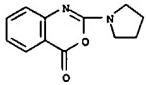


RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

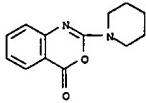
L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 123102-14-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

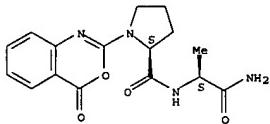


RN 123102-15-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(1-piperidinyl)- (9CI) (CA INDEX NAME)



RN 123102-24-9 CAPLUS
CN L-Alaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

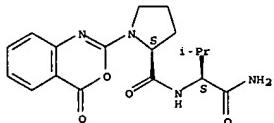
Absolute stereochemistry.



L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

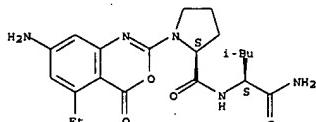
RN 123102-25-0 CAPLUS
CN L-Valinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123102-26-1 CAPLUS
CN L-Leucinamide, 1-(7-amino-5-ethyl-4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

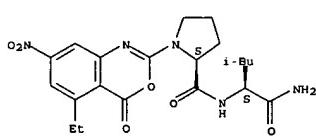
Absolute stereochemistry.



IT 123102-49-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 123102-49-8 CAPLUS
CN L-Leucinamide, 1-(5-ethyl-7-nitro-4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:131443 CAPLUS
DOCUMENT NUMBER: 108:131443
TITLE: Action of nitrogen nucleophiles on oxiranes of β -arylacrylic acids
AUTHOR(S): Omran, S. A.; Salem, M. A. I.; Harb, N. S.; Marzouk, M. I.
CORPORATE SOURCE:
SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
Egyptian Journal of Chemistry (1986), Volume Date 1985, 28(8), 399-410
CODEN: EGJCRA; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:131443
GI

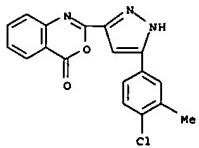


AB Epoxides I ($R_1 = ClMeC_6H_3$, $Me_2C_6H_3$) were treated with anilines to give $R_1COCH(OH)CH(NHR_2)CO_2H$ ($R_2 =$ methylchlorophenyl, tolyl). The reaction of I with R_3NHNH_2 ($R_3 = H$, Ph) gave pyrazoles II. I were heated with NaOH to

give $R_1COCOMe$ and $R_1C(OH)MeCO_2H$.
IT 113362-04-2P 113362-05-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

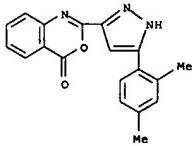
(preparation and condensation reactions of, with hydrazine and aniline)

RN 113362-04-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[5-(4-chloro-3-methylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 113362-05-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[5-(2,4-dimethylphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

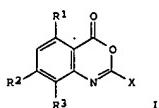


L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1988:94573 CAPLUS
 DOCUMENT NUMBER: 108:94573
 TITLE: Preparation of 4H-3,1-benzoxazin-4-ones as inhibitors of serine proteases
 INVENTOR(S): Krantz, Alexander; Spencer, Robin; Tam, Tim
 PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
 SOURCE: U.S., 39 pp. Cont.-in-part of U.S. Ser. No. 608,609, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4657893	A	19870414	US 1984-673996	19841126
DK 8406251	A	19850628	DK 1984-6251	19841221
NO 8405176	A	19850628	NO 1984-5176	19841221
NO 163184	C	19900418		
EP 147211	A2	19850703	EP 1984-309013	19841221
EP 147211	A3	19850814		
EP 147211	B1	19900912		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
CA 1269800	A1	19900529	CA 1984-470962	19841221
AT 56444	T	19900915	AT 1984-309013	19841221
AU 8437169	A	19850704	AU 1984-37169	19841224
AU 586616	B2	19890720		
JP 60169469	A	19850902	JP 1984-281900	19841226
ES 539038	A1	19860601	ES 1984-539038	19841226
IL 73943	A	19890131	IL 1984-73943	19841226
PI 8405116	A	19850628	FI 1984-5116	19841227
PI 79842	B	19891130		
PI 79842	C	19900312		
HU 36808	A2	19851028	HU 1984-4839	19841227
HU 195648	B	19880628		
ZA 8410089	A	19860827	ZA 1984-10089	19841227
ES 550879	A1	19870301	ES 1986-550879	19860114
PRIORITY APPLN. INFO.:			US 1983-566129	A2 19831227
			US 1984-608609	A2 19840509
			US 1984-673996	A 19841126
			EP 1984-309013	A 19841221

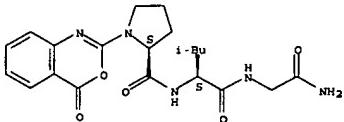
OTHER SOURCE(S): CASREACT 108:94573
 GI

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I; R1 = H, alkyl; R2, R3 = H, alkyl, OH, alkoxy, alkylthio, NO2, R2N, RCONR, R2NCONH, RO2CNH; X = R4NH, R5CONR, R2NZ, ROZ; R = H, alkyl, alkenyl, alkynyl; R4 = alkyl, alkenyl, alkynyl, (un)substituted C3-6 cycloalkyl, phenylalkyl; R5 = RNH, ROZ, R4; Z = amino acid or di- or tripeptide residue and their pharmaceutically acceptable ester or salts were prepared as inhibitors of serine proteases (no date), useful in treating inflammation and diseases involving protein degradation. 2-OCNC6H4CO2Me and EtCHMeNH2 were stirred at room temperature to give 2-EtCHMeNHCONHC6H4CO2Me. The latter was dissolved in concentrated H2SO4 and stirred 2.5 h to give I (R1-R3 = H, X = EtCHMeNH).
 IT 100075-85-2P 100075-85-3P 100075-87-4P
 100075-88-5P 100163-85-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antiinflammatory and antiarthritic)
 RN 100075-85-2 CAPLUS
 CN Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI) (CA INDEX NAME)

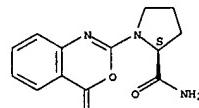
Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI) (CA INDEX NAME)

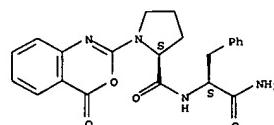
Absolute stereochemistry.

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



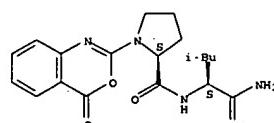
RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



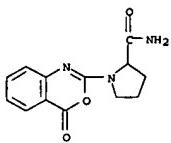
RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



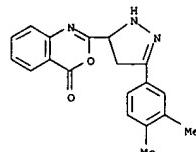
RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



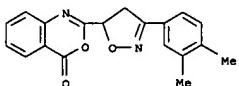
L4 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1988:56047 CAPLUS
 DOCUMENT NUMBER: 108:56047
 TITLE: Some reactions of N-[(3,4-dimethylbenzoyl)acryloyl]anthranilic acid and its derivatives
 AUTHOR(S): Soliman, E. A.; Hatabe, A. M.; Attia, I. A.; El-Shahed, F. A.; Mousa, H. A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1987), 9(1), 19-34
 DOCUMENT TYPE: CODEN: JCSPDF; ISSN: 0253-5106
 LANGUAGE: Journal
 English
 OTHER SOURCE(S): CASREACT 108:56047
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 AB Cyclization of anthranilic acid derivative I with RNHC(:Z)NH2 (R = H, Z = O, S; R = PhCH2, Z = S) and with Ac2O gave pyrimidines II (R = H, PhCH2; Z = O, S) and benzoxazinone III, resp. Cyclocondensation of III with N2H4 gave aminoquinazolinone IV (R1 = H). Condensation of III with N2H4 in the presence of R2CO2H (R2 = H, Me, Et, Pr) gave IV (R1 = COR2). Some reactions of IV (R1 = H) were also investigated.
 IT 112371-53-6P 112371-70-7P 112371-71-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 112371-53-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(3,4-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

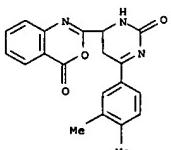


RN 112371-70-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dimethylphenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

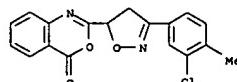


RN 112371-71-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(3,4-dimethylphenyl)-2,3,4,5-tetrahydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

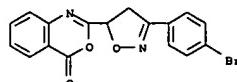


L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1987:407144 CAPLUS
 DOCUMENT NUMBER: 107:7144
 TITLE: Synthesis of some new benzoxazinone and quinazolone derivatives
 AUTHOR(S): Soliman, E. A.; Hassan, M. A.; Salem, M. A. I.; Sherif, I. S.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1985), Volume Date 1984, 27(6), 789-802
 DOCUMENT TYPE: CODEN: EGJCA3; ISSN: 0367-0422
 LANGUAGE: Journal
 English
 OTHER SOURCE(S): CASREACT 107:7144
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 AB Aroylvinylbenzoxazinones I (R = H, U; R1 = Br, Me; X = O) were prepared from anthranilic acid and β -aroylacryloyl chlorides with following cyclization using Ac2O. The reactions of I (X = O) with amines, hydrazines, hydroxylamine, and (thio)ureas yielded benzoxazinones II (X = O; Y = e. g. NH, NPh, NAc, O) and III (X = O, S) and quinazolones I (X = NC6H4Me-4, NC6H4OMe-4) and II (X = NNH2; Y = NH).
 IT 97272-12-3P 97272-13-4P 97272-14-5P
 97272-15-6P 97272-16-7P 97272-17-8P
 97272-53-2P 97272-55-4P 97272-57-6P
 97272-58-7P 97272-59-8P 97272-61-2P
 97272-62-3P 107833-56-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 97272-12-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

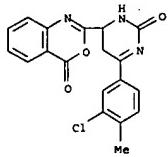


RN 97272-13-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)

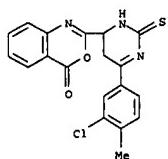


L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 97272-14-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

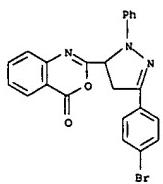


RN 97272-15-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

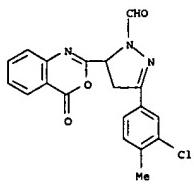


RN 97272-16-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-oxo-4-
 pyrimidinyl]- (9CI) (CA INDEX NAME)

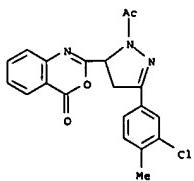
L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-57-6 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde,
 3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-
 oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

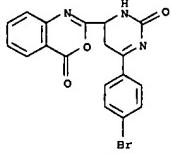


RN 97272-58-7 CAPLUS
 CN 1H-Pyrazole,
 1-acetyl-3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-
 3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

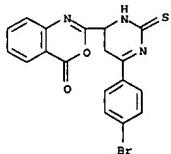


Habte

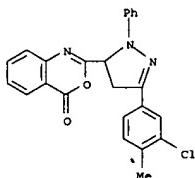
L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-17-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-thioxo-
 4-pyrimidinyl]- (9CI) (CA INDEX NAME)



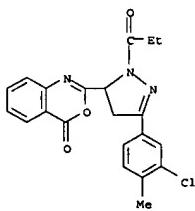
RN 97272-53-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1-
 phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



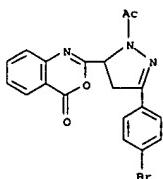
RN 97272-55-4 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-1-phenyl-1H-

L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 97272-59-8 CAPLUS
 CN 1H-Pyrazole, 3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-
 benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



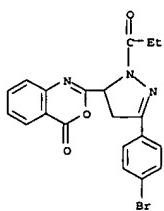
RN 97272-61-2 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-
 benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



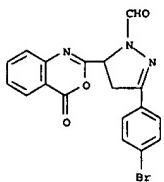
RN 97272-62-3 CAPLUS
 CN 1H-Pyrazole, 3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-
 yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

03/06/2007

L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

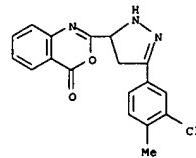


RN 107833-56-7 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde, 3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

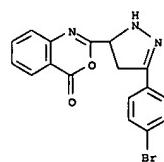


IT 97272-52-1P 97272-54-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, acetylation and hydrazinolysis of)
 RN 97272-52-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-(3-chloro-4-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

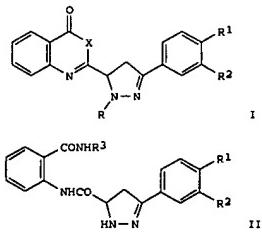
L4 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-54-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-(3-(4-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl)-
 (9CI) (CA INDEX NAME)



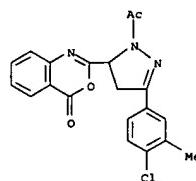
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1987:119830 CAPLUS
 DOCUMENT NUMBER: 106:119830
 TITLE: Some reactions of pyrazolinylbenzoxazones and -quinazolones
 AUTHOR(S): Soliman, E. A.; Hassan, M. A.; Salem, M. A. I.; Sherif, I. S.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1986), 8(2), 97-106
 CODEN: JCSPPD; ISSN: 0253-5106
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 106:119830
 GI



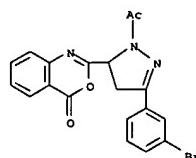
AB Arylpyrazolinylbenzoxazinones I ($X = O$; $R = H$; $R1 = H$, Cl; $R2 = Me$, Br) react easily with amines $R3NH_2$ ($R3 = e.g.$ Me, Bu, 4-MeOC₆H₄, PhCH₂) in EtOH or AcOH to furnish the corresponding anilides II or quinazolones I ($R = Ac$; $X = NR3$). Acetylation, benzylation and nitration of I led to the formation of I ($R = Ac$, Bz, NO; $X = O$). Other transformations of I were also investigated.
 IT 107263-61-6P 107263-62-7P 107263-63-8P
 107263-64-9P 107263-65-0P 107263-66-1P
 107263-67-2P 107263-68-3P 107263-69-4P
 107288-13-1P 107288-14-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 107263-61-6 CAPLUS
 CN 1H-Pyrazole,

1-acetyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

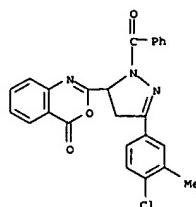
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 107263-62-7 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(3-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



RN 107263-63-8 CAPLUS
 CN 1H-Pyrazole, 1-benzoyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

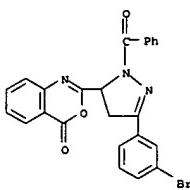


RN 107263-64-9 CAPLUS
 CN 1H-Pyrazole, 1-benzoyl-3-(3-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-

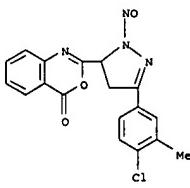
03/06/2007

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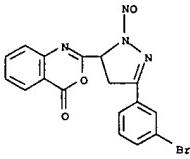
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



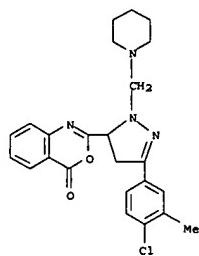
RN 107263-65-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



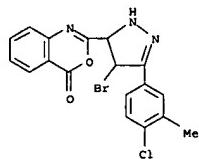
RN 107263-66-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-bromophenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 107263-67-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-(1-piperidinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

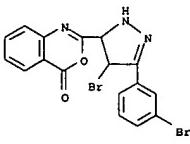


RN 107263-68-3 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

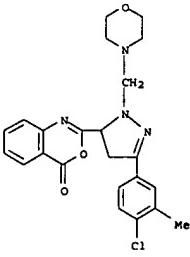


RN 107263-69-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[4-bromo-3-(3-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

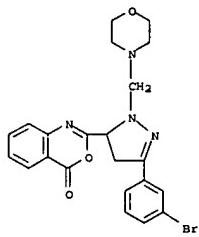


RN 107288-13-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1-(4-morpholinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

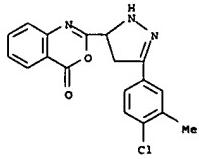


RN 107288-14-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-bromophenyl)-4,5-dihydro-1-(4-morpholinylmethyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

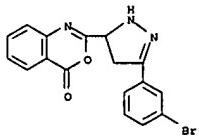
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 107263-38-7 107263-39-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of)
RN 107263-38-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



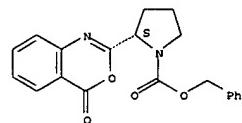
RN 107263-39-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[3-(3-bromophenyl)-4,5-dihydro-1H-pyrazol-5-yl]-
(9CI) (CA INDEX NAME)



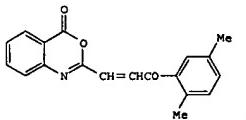
L4 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1986:626465 CAPLUS
 DOCUMENT NUMBER: 105:226465
 TITLE: Inhibition of serine proteases by benzoxazinones: effects of electron withdrawal and 5-substitution
 AUTHOR(S): Spencer, Robin W.; Copp, Leslie J.; Bonaventura, Bonnie; Tam, Tim P.; Liak, T. J.; Billedeau, Roland J.; Krantz, Allen
 CORPORATE SOURCE: Syntex Res., Mississauga, ON, L5N 3X4, Can.
 SOURCE: Biochemical and Biophysical Research Communications (1986), 140(3), 928-33
 CODEN: BBRCRA9; ISSN: 0006-291X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A series of substituted 4H-3,1-benzoxazin-4-ones were assayed as inhibitors of human leukocyte elastase (HLE) and other serine proteases. The benzoxazinones were kinetically competitive, alternate substrate inhibitors that inhibited by acylation and slow deacylation. Two structure-activity relations were found which were consistent with this mechanism. First, electron withdrawal at position 2 gave better inhibition (lower Ki values) because acylation rates were increased while deacylation was relatively unaffected. Second, benzoxazinones with Me or Et substitution at position 5 were better inhibitors of HLE because the acyl-enzymes formed from these compds. were 2,6-disubstituted benzoic acid esters and their deacylation was sterically hindered.
 IT 106324-50-9
 RL: BIOL (Biological study)
 (elastase of human leukocytes and other serine proteinases inhibition by, kinetics of, structure in relation to)
 RN 106324-50-9 CAPLUS
 CN 1-Pyrrolidinecarboxylic acid, 2-(4-oxo-4H-3,1-benzoxazin-2-yl)-phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

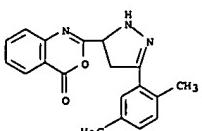
Absolute stereochemistry.



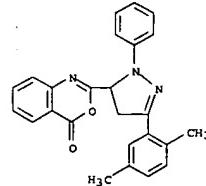
L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1986:626465 CAPLUS
 DOCUMENT NUMBER: 105:226465
 TITLE: Synthesis and some reactions of new 3,1-benzoxazin-4-one derivatives
 AUTHOR(S): Soliman, E. A.; Attia, I. A.; Guber, A. M.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1985), 27(3), 297-308
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 105:226465
 GI



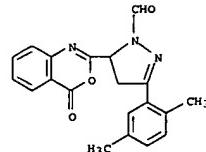
AB Benzoazinone I was prepared by treating 2-HO₂CC₆H₄NH₂ with 2,5-Me₂C₆H₃COCH:CHCOCl and cyclization of 2-HO₂CC₆H₄NHCOCH:CHCOOC₆H₃Me₂-2,5 with Ac₂O. I reacted with amines, hydrazines, NH₂OH, ureas, and thioureas to form various heterocyclic derivs.
 IT 105493-13-8P 105493-14-9P 105493-15-0P
 105493-16-1P 105493-17-2P 105493-18-3P
 105493-19-4P 105493-20-7P 105493-21-8P
 105493-22-9P 105493-23-0P 105507-04-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and acylation of)
 RN 105493-13-8 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-(3-(2,5-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)



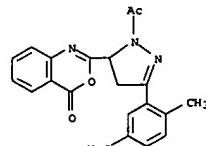
RN 105493-14-9 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 Habte

L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Pyrazol-5-yl)- (9CI) (CA INDEX NAME)

RN 105493-15-0 CAPLUS
 CN 1H-Pyrazole-1-carboxaldehyde,
 3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

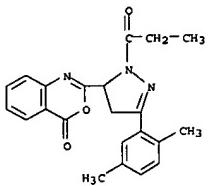


RN 105493-16-1 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

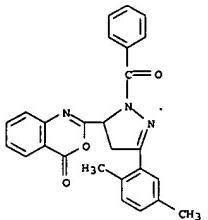


RN 105493-17-2 CAPLUS
 CN 1H-Pyrazole,
 3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)
 03/06/2007

L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

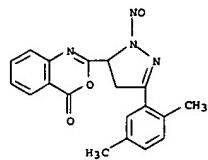


RN 105493-18-3 CAPLUS
CN 1H-Pyrazole, 1-benzoyl-3-(2,5-dimethylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

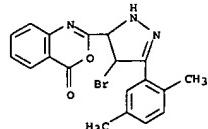


RN 105493-19-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(2,5-dimethylphenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

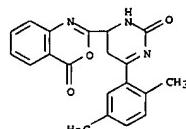
L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 105493-20-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(4-bromo-3-(2,5-dimethylphenyl)-4,5-dihydro-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 105493-21-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

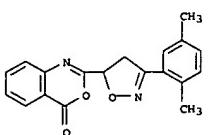


RN 105493-22-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

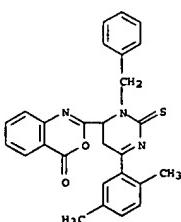
L4 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 105493-23-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(2,5-dimethylphenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)



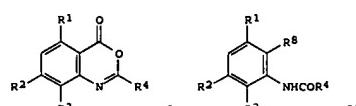
RN 105507-04-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[6-(2,5-dimethylphenyl)-2,3,4,5-tetrahydro-3-(phenylmethyl)-2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:88568 CAPLUS
DOCUMENT NUMBER: 104:88568
TITLE: 4H-3,1-Benzoxazin-4-ones and related compounds and pharmaceutical compositions containing them
INVENTOR(S): Krantz, Alexander; Tam, Tim F.; Spencer, Robin W.
PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
SOURCE: Eur. Pat. Appl., 138 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 147211	A2	19850703	EP 1984-309013	19841221
EP 147211	A3	19850814		
EP 147211	B1	19900912		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4657893	A	19870414	US 1984-673996	19841126
AT 56444	T	19900915	AT 1984-309013	19841221
ZA 8410089	A	19860827	ZA 1984-10089	19841227
PRIORITY APPLN. INFO.:			US 1983-566129	A 19831227
			US 1984-608609	A 19840509
			US 1984-673996	A 19841126
			EP 1984-309013	A 19841221

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AB The title compds. (I; R1 = H, C1-8 alkyl; R2, R3 = H, halo, C1-8 alkyl, alkoxy, thioalkyl, NO2, NR5R2, NR5COR5, NHCON(R5)2, NHCO2R5; R4 = NRH, NR5COR7, XNR5)2, XOR5; R5 = H, C1-8 alkyl, alkenyl, alkynyl; R6 = C1-8 alkyl, alkenyl, alkynyl, (un)substituted cycloalkyl or Ph; R7 = as for R6, alkoxy, NR5, XOR5; X = amino acid, di- or tripeptide! are useful as serine protease inhibitors. I were prepared by several methods, e.g., by cyclization of II (R1 - R4 as above; R6 = CO2H, CO2Me, CO2Et, etc.), or by substitutions of I (R4 = 1-benzotriazolyl). Thus, a solution of Me2CHNH2 was added to 2-(1-benzotriazolyl)-5-ethyl-4H-3,1-benzoxazin-4-one in CH2Cl2 and the mixture stirred for 20 min. TLC showed that the reaction was completed, after which the CH2Cl2 was evaporated, the residue

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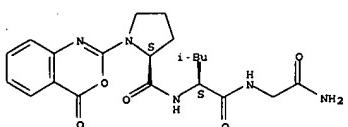
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L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 over silica gel, the fractions combined and evapd., and the resulting solid recrystd. from pentane to give 40 g 5-ethyl-2-(isopropylamino)-4H-3,1-benzoxazin-4-one (I; R1 = Et, R2 = R3 = H, R4 = NHCOMe2). Inhibition kinetics of I in human leukocyte elastase and bovine trypsin assays are given. Pharmaceutical compns. contng. I are also presented.

IT 100075-85-2P 100075-86-3P 100075-87-4P
 100075-88-5P 100163-85-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as serine protease inhibitor)

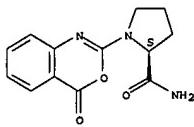
RN 100075-85-2 CAPLUS
 Glycinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl-L-leucyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 100075-86-3 CAPLUS
 CN 2-Pyrrolidinocarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-, (S)- (9CI)
 (CA INDEX NAME)

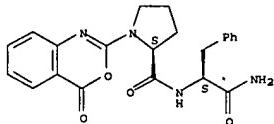
Absolute stereochemistry.



RN 100075-87-4 CAPLUS
 CN L-Phenylalaninamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI)
 (CA INDEX NAME)

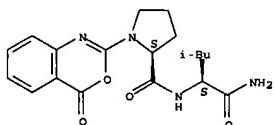
Absolute stereochemistry.

L4 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

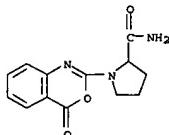


RN 100075-88-5 CAPLUS
 CN L-Leucinamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)-L-prolyl- (9CI) (CA INDEX NAME)

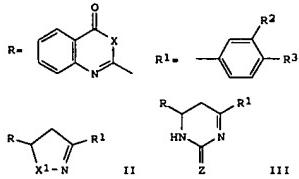
Absolute stereochemistry.



RN 100163-85-7 CAPLUS
 CN 2-Pyrrolidinocarboxamide, 1-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)



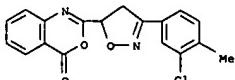
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985:454014 CAPLUS
 DOCUMENT NUMBER: 103:54014
 TITLE: synthesis of some new benzoxazones and quinazolones derivatives
 AUTHOR(S): Soliman, E. A.; Hassan, M. A.; Salem, M. A. I.; Sherif, I. S.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1984), 6(3), 183-90
 CODEN: JCSPDF; ISSN: 0253-5106
 DOCUMENT TYPE: Journal
 LANGUAGE: English
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AB RCH:CHCOR1 (I, X = O, R2 = H, Cl, R3 = Br, Me) were prepared by treating 2-HNC6H4CO2H with R1COCH:CHCOCl, followed by cyclization using Ac2O. I reacted with hydrazines to give pyrazoles II (X1 = NH, NPh) and with urea or thiourea to give pyrimidines III (Z = O, S). Aminolysis of I with R4NH2 (R4 = Me, Et, Bu, CH2Ph, 4-MeC6H4, 4-MeOC6H4) yielded 2-R4NHCO6H4NHCOCH:CHCOR1. When the aminolysis was carried out in the presence of ZnCl2 I (= NC6H4Me-4, NC6H4OMe-4) were formed.

IT 97272-12-3P 97272-13-4P 97272-14-5P
 97272-15-6P 97272-16-7P 97272-17-8P
 97272-53-2P 97272-55-4P 97272-57-6P
 97272-58-7P 97272-59-8P 97272-60-1P
 97272-61-2P 97272-62-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

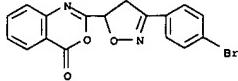
RN 97272-12-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-isoxazolyl)- (9CI) (CA INDEX NAME)



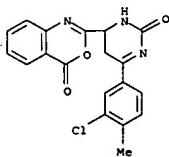
RN 97272-13-4 CAPLUS

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L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)



RN 97272-14-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

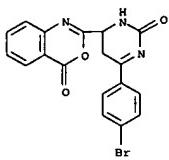


RN 97272-15-6 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[6-(3-chloro-4-methylphenyl)-2,3,4,5-tetrahydro-
 2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

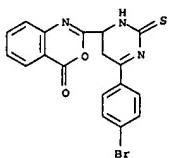


RN 97272-16-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-oxo-4-
 pyrimidinyl]- (9CI) (CA INDEX NAME)

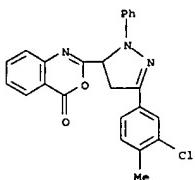
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



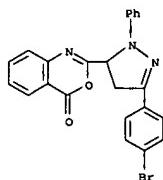
RN 97272-17-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[6-(4-bromophenyl)-2,3,4,5-tetrahydro-2-thioxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



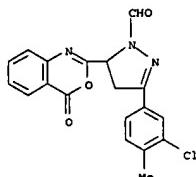
RN 97272-53-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1-phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 97272-55-4 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(4-bromophenyl)-4,5-dihydro-1-phenyl-1H-

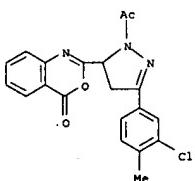
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 97272-57-6 CAPLUS
CN 1H-Pyrazole-1-carboxaldehyde,
3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

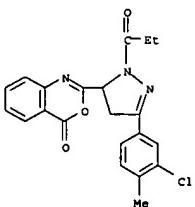


RN 97272-58-7 CAPLUS
CN 1H-Pyrazole,
1-acetyl-3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

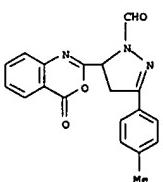
L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 97272-59-8 CAPLUS
CN 1H-Pyrazole, 3-(3-chloro-4-methylphenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)

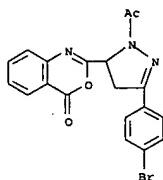


RN 97272-60-1 CAPLUS
CN 1H-Pyrazole-1-carboxaldehyde, 4,5-dihydro-3-(4-methylphenyl)-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

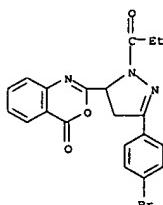


RN 97272-61-2 CAPLUS

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L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1H-Pyrazole, 1-acetyl-3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

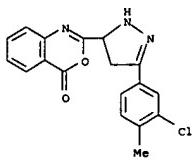
RN 97272-62-3 CAPLUS
CN 1H-Pyrazole, 3-(4-bromophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



IT 97272-52-1P 97272-54-3P
RN: SPN (Synthetic preparation); PREP (Preparation)
(preparation, aminolysis, or acetylation of)
RN 97272-52-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3-chloro-4-methylphenyl)-4,5-dihydro-1H-

Pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

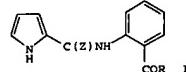


RN 97272-54-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(4-bromophenyl)-4,S-dihydro-1H-pyrazol-5-yl]-
 (9CI) (CA INDEX NAME)

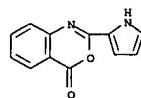


RN 97272-54-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(4-bromophenyl)-4,S-dihydro-1H-pyrazol-5-yl]-
 (9CI) (CA INDEX NAME)

L4 ANSWER 64 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1984:174580 CAPLUS
 DOCUMENT NUMBER: 100:174580
 TITLE: Synthesis of derivatives of pyrrole using methyl 2-isothiocyanatobenzoate
 AUTHOR(S): Looney-Dean, V.; Lindamood, B. S.; Papadopoulos, E.
 P.
 CORPORATE SOURCE: Dep. Chem., Univ. New Mexico, Albuquerque, NM, 87131, USA
 SOURCE: Synthesis (1984), (1), 68-71
 DOCUMENT TYPE: CODEN: SYNTBP; ISSN: 0039-7881
 LANGUAGE: Journal
 English
 OTHER SOURCE(S): CASREACT 100:174580
 GI

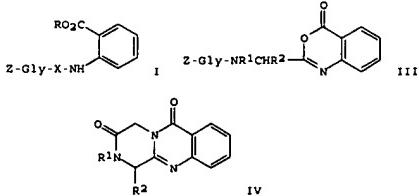
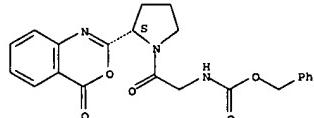


AB Pyrrolecarbanilides I (Z = S, O; R = OMe, OH, NH₂, NHCH₂Ph) were prepared. Pyrrole was heated with 2-SCNCH₂H₄CO₂Me to yield I (Z = S, R = OMe), which was converted to I (Z = O, R = OMe) and I (Z = S, R = OH) (II). II was cyclized to a benzoxazinone, and cleavage of the product with NH₃ and PhCH₂NH₂ gave I (Z = O, R = NH₂, NHCH₂Ph).
 IT 89812-78-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 RN 89812-78-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



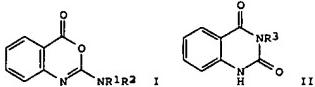
L4 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1982:616690 CAPLUS
 DOCUMENT NUMBER: 97:216690
 TITLE: Peptide derivatives of anthranilic acid. II. Intramolecular rearrangement products of dipептидylanthranil
 AUTHOR(S): Liberek, Bogdan; Zarebski, Jan
 CORPORATE SOURCE: Inst. Chem., Univ. Gdansk, Gdansk, PL-80-952, Pol.
 SOURCE: Pept., Proc. Eur. Pept. Symp., 16th (1981), Meeting Date 1980, 236-41. Editor(s): Brunfeldt, K.
 Scriptor: Copenhagen, Den.
 DOCUMENT TYPE: CODEN: 4BNWA3
 Conference
 LANGUAGE: English
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L4 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

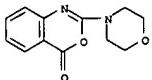


AB Anthranilic acid peptide I (Z = PhCH₂O₂C, X = MeGly, R = H) (II) was cyclized by DCC to give benzoxazinone III (R1 = Me, R2 = H), which was deblocked by hydrogenolysis and then cyclized to give azadehydrocyclol IV (R1 = Me, R2 = H). Z-Gly-MeGly-OH was coupled with anthranilic acid Me ester by DCC to give I (X = MeGly, R = Me), which was saponified to give II. IV (R1R2 = (CH₂)₃; R1 = H, R2 = CH₂Ph) were prepared similarly from I (X = MeGly, R = Me).
 IT Pro, Phe; R = H via the resp. III.
 RN 83597-60-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrogenolysis-cyclization of)
 CN 83597-60-8 CAPLUS
 Carbamic acid, [2-oxo-2-[2-(4-oxo-4H-3,1-benzoxazin-2-yl)-1-pyrrolidinylethyl]- phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L4 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1982:6663 CAPLUS
 DOCUMENT NUMBER: 96:6663
 TITLE: Heterocyclization with iminium chlorides. II. Synthesis of 4H-[3,1]-benzoxazine-4-ones and quinazolinones
 AUTHOR(S): Bitter, Istvan; Szocs, Laszlo; Toke, Laszlo
 CORPORATE SOURCE: Dep. Org. Chem. Technol., Tech. Univ., Budapest, Hung.
 SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1981), 107(1), 57-66
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 96:6663
 GI

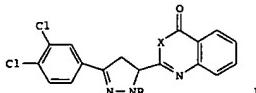


AB O-H2NC6H4CO2Me was treated with R1R2N+:CCl2Cl- (R1 = Me, R2 = Ph; R1 = Me, R1R2N = morpholino) to give the benzoxazoles I. I were cleaved with R3NH2 (R3 = H, Bu, Ph, o-HO2CC6H4, 4-ClC6H4, etc.) to give o-(R3NHCO)C6H4NHCONR1R2, which were cyclized in boiling Ac2O or DMF to give the quinazolinones II.
 IT 79860-06-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ring cleavage of)
 RN 79860-06-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

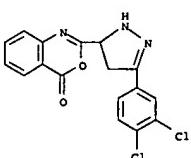


● HCl

L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1981:515462 CAPLUS
 DOCUMENT NUMBER: 95:115462
 TITLE: Some reactions of 2-[3-(3,4-dichlorophenyl)-2-pyrazoline-5-yl]-4H-benzoxazin-4-one
 AUTHOR(S): Soliman, E. A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Revue Roumaine de Chimie (1981), 26(5), 699-703
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 95:115462
 GI

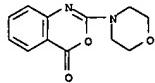


AB Treating the title compound (I, X = O, R = H) (II) with AcCl, BzCl, piperidine, and morpholine gave I (X = O; R = Ac, Bz, piperidino, morpholino) resp., whereas treating II with R1NH2 (R1 = Me, Bu, PhCH2, 4-MeOC6H4) gave I (X = NR1, R = H).
 IT 70012-29-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (acylation and aminolysis of)
 RN 70012-29-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

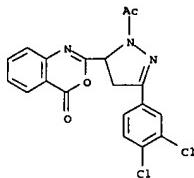


IT 78958-68-6P 78958-69-7P 78958-70-0P
 78958-71-1P 78958-76-6P 78958-77-7P
 78958-78-8P 78958-79-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 78958-68-6 CAPLUS
 CN 1H-Pyrazole, 1-acetyl-3-(3,4-dichlorophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-

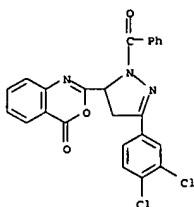
L4 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 23494-28-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

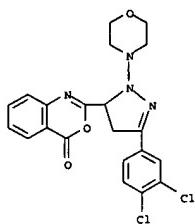


RN 78958-69-7 CAPLUS
 CN 1H-Pyrazole,
 1-benzyl-3-(3,4-dichlorophenyl)-4,5-dihydro-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

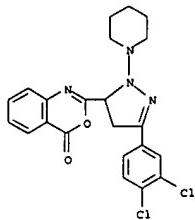


RN 78958-70-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-(4-morpholinyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

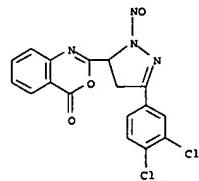


RN 78958-71-1 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-(1-piperidinyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

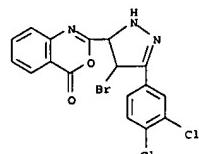


RN 78958-76-6 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-nitroso-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

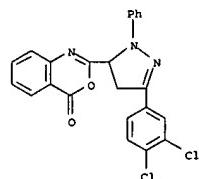
L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 78958-77-7 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[4-bromo-3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

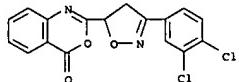


RN 78958-78-8 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1-phenyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 78958-79-9 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-5-isoxazolyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 68 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

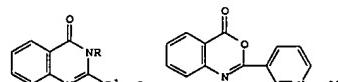
ACCESSION NUMBER: 1981:121596 CAPLUS
DOCUMENT NUMBER: 94:121596
TITLE: 2,3-Dipyridylquinazolines
PATENT ASSIGNEE(S): Hisamitsu Pharmaceutical Co., Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

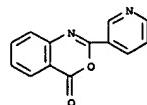
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
----- JP 55147279	----- A	19801117	JP 1980-44865	19800404
PRIORITY APPLN. INFO.:			JP 1980-44865	A 19800404

GI



AB Quinazolines I (R, R1 = pyridyl), useful as antidepressants (no data) and inflammation inhibitors, were prepared. Thus, treating 0.35 g II with 0.176 g 3-aminopyridine at 200° gave 0.3 g I (R = R1 = 3-pyridyl). The latter compound showed antiinflammatory activity approx. equal to that of phenylbutazone.
IT 53180-68-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(aminolysis of)
RN 53180-68-0 CAPLUS
CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

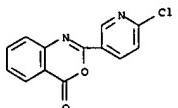


L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1881:121561 CAPLUS
 DOCUMENT NUMBER: 94:121561
 TITLE: 4H-3,1-Benzoxazine derivatives
 INVENTOR(S): Humprecht, Gerhard; Wuerzer, Bruno
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 90 PP.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

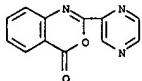
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2914915	A1	19801030	DE 1979-2914915	19790412
IL 59775	A	19840330	IL 1980-59775	19800404
BR 8002142	A	19801125	BR 1980-2142	19800408
US 4315766	A1	19820216	US 1980-138414	19800408
CA 1145748	A1	19830503	CA 1980-349377	19800408
DD 14995	A5	19810812	DD 1980-220307	19800409
SU 980601	A3	19821207	SU 1980-2903456	19800409
CS 212229	B2	19820326	CS 1980-2490	19800410
HU 26093	A2	19830928	HU 1980-672	19800410
HU 185882	B	19850428		
PL 126871	B2	19830930	PL 1980-223370	19800410
AU 8057375	A	19801016	AU 1980-57375	19800411
AU 535463	B2	19840322		
EP 17931	A2	19801029	EP 1980-101957	19800411
EP 17931	A3	19810121		
EP 17931	B1	19840307		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
JP 55141476	A	19801105	JP 1980-47006	19800411
JP 02024825	B	19900530		
ZA 8002173	A	19810624	ZA 1980-2173	19800411
ES 490486	A1	19811101	ES 1980-490486	19800411
RO 81078	A1	19830201	RO 1980-100802	19800411
EP 84893	A2	19830803	EP 1983-100793	19800411
EP 84893	A3	19830824		
EP 84893	B1	19870114		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 6509	T	19840315	AT 1980-101957	19800411
AT 24901	T	19870115	AT 1983-100793	19800411
US 32087	E	19860225	US 1983-506316	19830621
PRIORITY APPLN. INFO.:				
			DE 1979-2914915	A 19790412
			US 1980-138414	A5 19800408
			EP 1980-101957	P 19800411
			EP 1983-100793	A 19800411

OTHER SOURCE(S): MARPAT 94:121561
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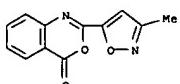
L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



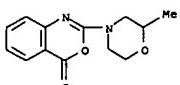
RN 76903-56-5 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-pyrazinyl- (9CI) (CA INDEX NAME)



RN 76903-58-7 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-methyl-5-isoxazolyl)- (9CI) (CA INDEX NAME)

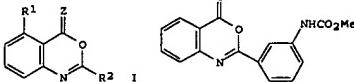


RN 76903-60-1 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2-methyl-4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 76903-62-3 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(2,6-dimethyl-4-morpholinyl)- (9CI) (CA INDEX NAME)

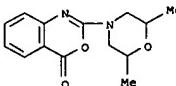
L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Benzoxazines I [R1 = H, halo, (halo)alkyl, haloalkoxy, -alkylthio, cyano, thiocyanato, CO2R3 (R3 = alkyl, alkenyl), CONR4R5 (R4 = alkyl, R5 = H, alkyl), Z1R4 (Z, Z1 = O, S), SOR4, SO2R4, SO2NR4R5, COR4; R2 = Me-substituted cyclo- or bicycloaliph., heterocyclyl optionally Me- or halo-substituted; R6-substituted aryl (R6 = R722 (R7 = aliphatic; Z2 = O, S, SO, SO2, SO2C, SCO, ONHCO, SNHCO, SNHCS, NHSO2, NR7SO2, NHCONH), halo-substituted C1-4 R722, N(CF3)SCF3, NHCONHMe, NHCONMe2, NHCONMeMe, HCONH, H, halo, cyano, thiocyanato, NO2, haloalkyl, acyl, F, Cl, haloalkyl or haloalkoxy-substituted aralkyl)], useful as selective herbicides (extensive data tabulated), were prepared. Thus, acylation by 3-O2NC6H4COCl of 2-H2NC6H4CO2H gave 2-(3-O2NC6H4CO2H)C6H4CO2H, which was hydrogenated over Raney Ni to 2-(3-H2NC6H4CO2H)C6H4CO2H. This was N-acylated with MeO2CCL and NET3 in (CH2Cl)2 to give 2-(3-MeO2NC6H4CO2H)C6H4CO2H, which was cyclized in refluxing Ac2O to give 88% benzoxazine II. IT 76903-57-6P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and herbicidal activity of) RN 76903-57-6 CAPLUS CN 4H-3,1-Benzoxazin-4-one, 2-(4-methyl-5-oxazolyl)- (9CI) (CA INDEX NAME)

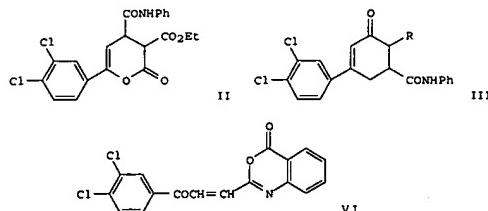
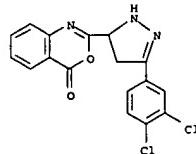
IT 76903-55-4P 76903-56-5P 76903-58-7P 76903-60-1P 76903-62-3P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) RN 76903-55-4 CAPLUS CN 4H-3,1-Benzoxazin-4-one, 2-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



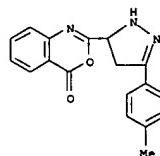
14 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1980-198066 CAPLUS
 DOCUMENT NUMBER: 92-198066
 TITLE: Some reactions with β -(3,4-dichlorobenzoyl)-N-
 phenylacrylamide and β -(3,4-
 dichlorobenzoyl)acryloyl chloride
 AUTHOR(S): Soliman, E. A.; Hosni, Galal
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Pakistani Journal of Scientific and Industrial
 Research
 (1979), 22(5), 228-35
 CODEN: PSIRAA; ISSN: 0030-9885
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 92:198066
 GI:

L4 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 70012-29-2 CAPLUS
CN 4H-3,1-Benzoxazin-4-one,
2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-
5-yl]- (9CI) (CA INDEX NAME)

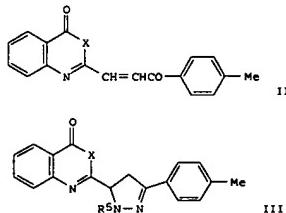


A8 Reactions of 3,4-Cl₂C₆H₃COCH:CHCONHPh (I) with active methylene compds, Grignard reagents, hydrazines, acyl chlorides, amines and H2NCSNH2 were performed. Thus, Michael condensation of I with (EtO₂C)₂CH₂ gave II and of I with MeCOCH₂R (R = CO₂Et, Me, Ph) gave III. Grignard reaction of I gave 1,4-addition products, 3,4-Cl₂C₆H₃COCH₂CH(R)CONHPh (IV; R = Ph, Et, PhCH₂, 4-MeOC₆H₄). Acylation of I and reactions with hydrazines gave the expected products. Amination of I gave IV (R1 = morpholinyl, piperidinyl, PhCH₂NH). Treatment of I with H2NCSNH2 did not give a thiazole but gave 3,4-Cl₂C₆H₃COCH:CHCONHCSNH2. Reactions of 3,4-Cl₂C₆H₃COCH:CHC₁ (V) were also studied. Friedel-Crafts reaction of V gave 3,4-Cl₂C₆H₃COCH₂CH(R)COR2 (R2 = Ph, 4-MeC₆H₄). Reaction of V with 2-H2NCGH₄CO2H in Et2O gave 3,4-Cl₂C₆H₃COCH:CHCONHC₆H₄CO₂H-2 but in pyridine the product was VI. IT 70012-25-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with hydrazine and toluidine)

L4 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



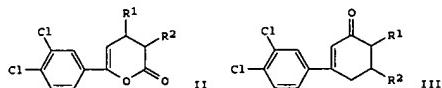
64 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1979:575295 CAPLUS
 DOCUMENT NUMBER: 91:175295
 TITLE: Reactions with the amides and chlorides of some
 β -acryloylcarboxylic acids
 AUTHOR(S): Sammour, A.; Afify, A. A.; Abdallah, M.; Soliman, E.
 A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1979), Volume Date
 1976, 19(6), 1109-16
 CODEN: EGJCA3; ISSN: 0367-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 91:175295
 GI:



AB RCOCH:CHCONHCSNHR1 (R = 4-MeC6H4, 2-naphthyl; R1 = H, CH2Ph) were prepared by treating RCOCH:CHCONHC6H4R2-4 (R2 = H, Me, OMe) or 4-MeC6H4COCH:CHCOCl (I) with H2NCNSNHR1. 4-MeC6H4COCH:CHCONHC6H4SO2NR3-4 [R3 = H, C(=O)NH2, 4-methyl-2-pyridinyl] were obtained from I and H2NC6H4SO2NR3-4. I reacted with 2-H2NC6H4CO2H to give 2-H2C6H4NHCOCH:CHCOG6H4Me-4, which cyclized to the benzoxazinone IX (X = O). Reaction of II (X = O) with amines RNHNH2 in EtOH gave 2-R4NHCOG6H4NHCOCH:CHCOG6H4Me-4 (R4 = CH2Ph, 4-MeC6H4), but reaction with 4-MeC6H4NH2 at 170° gave II (X = NC6H4Me-4). Reaction of II (X = O) with NHH2 gave III (X = O, NHNH2, R5 = H), whereas with PhNNHH2 only III (X = NNHH2, R5 = Ph) was obtained.

IT H), where with PNNHNR2 Only III (X = NNNP, R5 = Ph) was obtained.
 IT 7103-79-79
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 7103-82-7 CAPIUS
 CN 4H-3,1-Benzoxazin-4-one, 2-[4,5-dihydro-3-(4-methylphenyl)-1H-pyrazol-5-
 yl]- (9CI) [CA INDEX NAME]

14 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1979:203645 CAPLUS
DOCUMENT NUMBER: 90:203645
TITLE: Some reactions of β -,(3,4-dichlorobenzoyl)-N-phenylacrylaide and β -,(3,4-dichlorobenzoyl)acrylic chloride
AUTHOR(S): Soliman, E. A.; Hossini, Galal
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry including Medicinal Chemistry (1978), 16B(10), 884-8
CODEN: IJSCBD; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 90:203645
OL



AB The Michael condensation of $\text{RCOOCH}:\text{CHCONHPh}$ ($\text{R} = 3,4-\text{Cl}_2\text{C}_6\text{H}_3$; I) with $\text{CH}_2(\text{COEt})_2$, $\text{MeCOCH}_2\text{COEt}$, EtCO_2 , and $\text{MeCOCH}_2\text{CO}_2$ gave pyrroles II ($\text{R} = \text{Ph}, \text{PNHCOC}_2, \text{CO}_2\text{H}_2$), III ($\text{R} = \text{CO}_2\text{H}_2$), and cyclic amides IV ($\text{R} = \text{Ph}, \text{COEt}, \text{Me}, \text{Ph}, \text{PhCONH}_2$). $\text{PhNHCO}_2\text{H}_2$ reacted with Grignard reagents and amines, thionoureas, hydrazines and NH_2OH gave $\text{R}_1\text{R}_2\text{N}(\text{R}_3 - \text{COCH}_2\text{CHRACONHPh}$; $\text{R}_4 = \text{morpholin-4-yl, piperidin-4-yl, PhCH}_2$; $\text{R}_5 = \text{Ph}, \text{CH}_2\text{CONH}_2$; $\text{R}_6 = \text{Ph, NH}_2, \text{NHPh, OH}$. Friedel-Crafts alkylation of C_6H_6 and MePh with $\text{RCOOCH}:\text{CHCOCl}$ (IV) gave $\text{RCOOCH}_2\text{CHRCO}_2\text{R}$ ($\text{R}_6 = \text{R}_7 = \text{Ph, 4-MeC}_6\text{H}_4$). The reaction of IV and 2- $\text{H}_2\text{NC}_6\text{H}_4\text{CO}_2\text{H}$ gave $\text{R}_2\text{COCH}(\text{CHCONH}_2)\text{CH}_2\text{CO}_2\text{H}_2$.

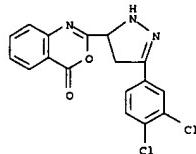
IT R2COCH:CHCONHC6H4CO2H-2.
70012-29-2P
RL: SPN (Synthetic preparation); PREP (Preparation)

RE: SPN (synthetic
(preparation of)

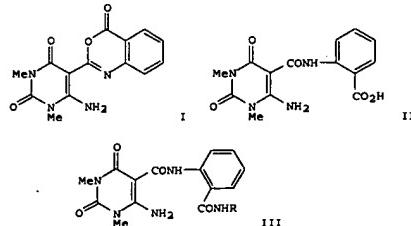
RN 70012-29-2 CAPLUS

CN 4H-3,1-Benzoxazin-4-one,
 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-
 5-yl]-(9CI) (CA INDEX NAME)

L4 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

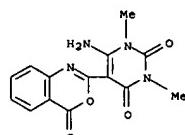


ANSWER 73 OF 79 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1978:597453 CAPLUS
DOCUMENT NUMBER: 89:197453
TITLE: Cyclization of arylcarboxamidouracile. Synthesis of
8 new 4H-3,1-benzoxazin-4-one. Use of mass
spectrometry as a probe
AUTHOR(S): Bernier, Jean Luc; Henichart, Jean Pierre
CORPORATE SOURCE: Lab. Chim. Biol. Struct., Lille, Fr.
SOURCE: Journal of Heterocyclic Chemistry (1978), 15(6),
997-1000
DOCUMENT TYPE: CODEN: JHTCAB; ISSN: 0022-152X
LANGUAGE: Journal
OTHER SOURCE(S): English
GI: CASREACT 89:197453



AB Benzoxazinone I was obtained in 66% yield from uracil II by cyclization with Ac₂O. Amination of I by RNH₂ (R = Me, Ph) gave 73 and 80%, resp., of the ring-opened products III.
IT 68210-98-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and amination of)
RN 68210-98-0 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 6-amino-1,3-dimethyl-5-(4-oxo-4H-3,1-benzoxazin-2-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:502374 CAPLUS

DOCUMENT NUMBER: 87:102374

TITLE: 3,4-Dihydroquinazoline derivatives

INVENTOR(S): Doria, Gienfederico; Romeo, Ciriaco; Giraldi, Piernicola; Lauria, Francesco; Corno, Maria Luisa; Sberse, Piero; Tibolla, Marcello

PATENT ASSIGNEE(S): Erba, Carlo, S.p.A., Italy

SOURCE: Ger. Offen., 44 pp.

CODEN: GWXBX.

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2654215	A1	19770616	DE 1976-2654215	19761130
US 4251531	A	19810217	US 1976-738221	19761102
IL 50849	A	19801130	IL 1976-50849	19761104
AU 7619472	A	19780518	AU 1976-19472	19761110
BE 848696	A1	19770316	BE 1976-172653	19761124
FI 7601391	A	19770606	FI 1976-3391	19761125
FI 64359	B	19830729		
FI 64359	C	19831110		
NL 7613450	A	19770607	NL 1976-13450	19761202
FR 2333511	A1	19770701	FR 1976-36343	19761202
FR 2333511	B1	19790302		
AT 7608943	A	19790715	AT 1976-8943	19761202
AT 355029	B	19800211		
DK 7605167	A	19770606	DK 1976-5467	19761203
DK 147855	B	19841224		
DK 147855	C	19850610		
SE 7613588	A	19770606	SE 1976-13588	19761203
NO 7604135	A	19770607	NO 1976-4135	19761203
NO 146095	B	19820419		
NO 146095	C	19820811		
CS 194786	B2	19791231	CS 1976-7886	19761203
CA 1084051	A1	19800819	CA 1976-267090	19761203
SU 786894	A3	19801207	SU 1976-2426155	19761203
HU 20142	A2	19810627	HU 1976-EA167	19761203
HU 177817	B	19811228		
CH 626073	A5	19811030	CH 1976-15272	19761203
JP 52071485	A	19770614	JP 1976-146444	19761206
JP 55043464	B	19801106		
AT 7902464	A	19791215	AT 1979-2464	19790403
AT 357544	B	19800710		
CH 626075	A5	19811030	CH 1980-8855	19801128
PRIORITY APPLN. INFO.:			IT 1975-29998	A 19751205
			AT 1976-8943	A 19761202
			CH 1976-15272	A 19761203

OTHER SOURCE(S): MARPAT 87:102374

GI

L4 ANSWER 75 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:17267 CAPLUS

DOCUMENT NUMBER: 84:17267

TITLE: Organosulfur compounds. XII. Syntheses and pharmacological activities of 2-heterocyclic-substituted 4(3H)-quinazolinones

AUTHOR(S): Hisano, Takuzo; Ichikawa, Masatake; Nakagawa, Akira; Teiji, Masayoshi

CORPORATE SOURCE: Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1975), 23(9), 1910-16

DOCUMENT TYPE: CODEN: CPBTAL; ISSN: 0009-2363

LANGUAGE: English

OTHER SOURCE(S): CASREACT 84:17267

GI For diagram(s), see printed CA Issue.

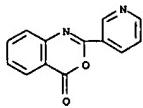
AB Quinazolinones I ($R = 3$; 4-pyridyl, 2-thienyl, $R_1 = H$, 2-Cl, 2-F, etc.) were prepared from isatoic anhydride and amines or acylation of O-H₂NCH₂CO₂H followed by cyclization were evaluated for hypnotic activity. Some I showed a definite hypnotic effect in intraperitoneal doses above 100 mg/kg, whose structure-activity relationship demonstrated that $R = 3$ -pyridyl and 4-pyridyl $R_1 = 2$ -F, 2-Cl are appropriate for the manifestation of hypnotic activity. A maximum hypnotic effect was observed in I ($R = 2$ -pyridyl, $R_1 = 0$ -F), the potency of which was equal to methaqualone in mice.

IT 53180-68-0P 57696-11-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction with amines)

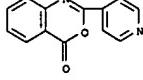
RN 53180-68-0 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

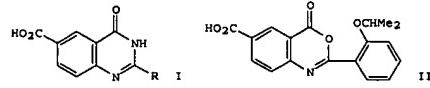


RN 57696-11-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

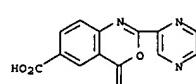
AB Antiallergic (no date) quinazolinones I ($R =$ pentyl, 2-pyrazinyl, 4-EtOCH₂CH₂OCH₂H, 4-FC₆H₄, 3-CIC₆H₄, 2-O₂NC₆H₄, 2-R₁O₂CH₂H; $R_1 =$ Me₂CH, Me, Et, allyl, Pr, Bu, Me₂CHCH₂, EtOCH₂CH₂, hexyl) and some ester and amide derivs. were prepared. Thus, 2,4-(MeO₂C)C₆H₃NHCO₂H₄OCH₂Me-2 hydrolyzed, the acid product cyclized with Ac₂O, and the benzoxazine II treated with NH₄OH to give I ($R = 2$ -Me₂CHOC₆H₄H).

IT 63746-31-6

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with ammonia, quinazoline from)

RN 63746-31-6 CAPLUS

CN 4H-3,1-Benzoxazine-6-carboxylic acid, 4-oxo-2-pyrazinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:551894 CAPLUS

DOCUMENT NUMBER: 81:151894

TITLE: 2-Hydroxyindoxyls. General and novel preparation, properties, and their role in the peraphthalic acid oxidation of indoles

AUTHOR(S): Braudeau, E.; David, S.; Fischer, J. C.

CORPORATE SOURCE: Dep. Chim. Org., Univ. Paris-Sud, Orsay, Fr.

SOURCE: Tetrahedron (1974), 30(11), 1445-55

DOCUMENT TYPE: CODEN: TETRAB; ISSN: 0040-4020

Language: French

OTHER SOURCE(S): CASREACT 81:151894

GI For diagram(s), see printed CA Issue.

AB Oxidation of 2-isopropylindole with monoperphthalic acid gave the 2-OH compound

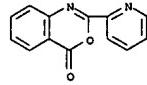
I and the (isopropylindolyl)indoxyl II. Increased reaction time gave the benzoxazine III. Other 2-substituted indoxyls reacted similarly. 2-Isobutyrylindoxyl, in addition to comds. corresponding to I and II, gave the bridged compound IV. The mechanism of the oxidns. is discussed.

IT 53904-12-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 53904-12-4 CAPLUS

CN 4H-3,1-Benzoxazin-4-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



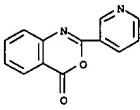
L4 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1974:477955 CAPLUS
 DOCUMENT NUMBER: 81:77955
 TITLE: 2,3-Dipyridylquinazoline derivatives
 INVENTOR(S): Noda, Kanji; Nakagawa, Akira; Yamazaki, Shunzo; Ide, Hiroyuki
 PATENT ASSIGNEE(S): Hisamitsu Pharmaceutical Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49031681	A	19740322	JP 1972-75246	19720727
JP 56010316	B	19810306		
			JP 1972-75246	A 19720727

PRIORITY APPLN. INFO.: OTHER SOURCE(S): CASREACT 81:77955

GI For diagram(s), see printed CA Issue.
 AB 2,3-Bis(pyridyl)quinazolinones (I, R₁,R₂ = 2-, 3-, or 4-pyridyl) with hypnotic, anesthetic, sedative, muscle relaxant, anticonvulsant, antiinflammatory, and analgesic properties were prep'd by reaction of N-pyridylcarboxylic acids or their cyclized derivs. with pyridylamines, RNH₂. E.g., heating 0.35 g 2-(3-pyridyl)-4H-3,1-benzoxazin-4-one and 1.67 g 3-aminopyridine 10 hr at 200° yielded 0.3 g 2-(3-pyridyl)-3-(3-pyridyl)-4(3H)-quinazolinone.
 2-(3-Pyridyl)-3-(2-pyridyl)-, 2-(4-pyridyl)-3-(2-pyridyl)-, and 2-(2-pyridyl)-3-(2-pyridyl)-4(3H)-quinazolinones were similarly prepared

IT 53180-68-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with aminopyridines)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1950:20113 CAPLUS
 DOCUMENT NUMBER: 44:20113
 ORIGINAL REFERENCE NO.: 44:4001a-i,4002a-c
 TITLE: The so-called acylanthenranils (3,1,4H-benzoxaz-4-ones).
 1. Preparation; reactions with water, ammonia, and aniline; structure
 AUTHOR(S): Zentmyer, David T.; Wagner, E. C.
 CORPORATE SOURCE: Univ. of Pennsylvania, Philadelphia
 SOURCE: Journal of Organic Chemistry (1949), 14, 967-81
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 44:20113
 GI For diagram(s), see printed CA Issue.
 AB The structure of the heterocyclic ring in 3,1,4H-benzoxaz-4-ones, o-C₆H₄N:CR.O.CO (I), has not been decisively proved. An improved general procedure for the preparation of I is described and their behavior toward H₂O.
 NH₃ and PhNH₂ is studied. I are prepared by dehydration of the corresponding N-acylanthenranilic acids which in turn are obtained according to the method of Steiger (C.A. 39, 288,6), except o-HCONHC₆H₄CO₂H (II). II, m. 167°, is obtained in 90% yield by refluxing 3 hrs. 68.5 g. o-HNC₆H₄CO₂H in 500 cc. C₆H₆ and 57 cc. 99% HCO₂H. The following o-RNH₂C₆H₄CO₂H (III) are prepared: R = EtCO, 71.3% yield, m. 114-15°; PrCO, 32.6%, m. 118-18.5%; Me₂CH₂CO (IV), 33.5%, m. 115-6°; AmCO (V), 32.8%, m. 99-103°; Me(CH₂)₁OCO (VI), 40.8%, m. 92°; Bz, 99.2%, m. 182-3°; o-MeC₆H₄CO, 31.6%, m. 193-4°; p-analog, 82.5%, m. 193-4°; o-ClC₆H₄CO, 59.6%, m. 186.5-7°; p-analog, 96.8%, m. 204-5°; o-O₂NC₆H₄CO, 57%, m. 234-5°; p-analog, 77.5%, m. 235.5°; 3,5-(O₂N)2C₆H₄CO (VII), 54.7%, m. 208-9° (decomposition); nicotinyl, 71%, m. 263-4°. III are dehydrated by refluxing 0.05 mol. III with 0.4 mol. Ac₂O 1 hr. and then slowly distilling off 25 cc. at below 139°. The excess Ac₂O is distilled off in vacuo and I recrystd. from anhydrous AcOEt and C₆H₆. In this way the following I are prepared: R = Et (VIII), 74.7% yield, m. 181-2°; Pr (IX), 26.6%, m. 59-60°; Ph, 81%, m. 123-4°; o-MeC₆H₄, 74.6%, m. 115°; p-MeC₆H₄, 58.5%, m. 154-5°; o-ClC₆H₄, 91%, m. 139-40°; p-ClC₆H₄, 89.4%, m. 190°; o-O₂NC₆H₄, 94.6%, m. 195-5.5°; p-O₂NC₆H₄, 71.7%, m. 203°; 3-pyridyl, 80.8%, m. 153°. (R = H) (X) prepared from II and isolated from the reaction mixture by distillation, b.p. 122°. m. 43-4°. X is hydrolyzed by atmospheric moisture and deteriorates on standing in a stoppered bottle. An attempt to prepare X from II and 100% HCO₂H failed. When HCO₂H is added to II and Ac₂O, 3-(2-carboxyphenyl)-4-quinazolone, m. 274.5-5°, is formed. I (R = Me), prepared in 66.7% yield, m. 80-1°, is purified by sublimation at 70-5°/0.03 mm. No I are obtained from IV-VII. IV and Ac₂O give some o-ACNH₆H₄CO₂H, m. 181-2°, probably by transacylation, followed by hydrolysis. V and Ac₂O give an unidentified compound, m. 144-4.5°. o-H₂NC₆H₄CO₂Me (XI) refluxed with Ac₂O gives the NH₂ analog (XII), m. 98-9°. XI or o-HCONHC₆H₄CO₂Me and Ac₂O at 200° give XII and the Ac₂N analog of XI, m. 66-7°. Passing NH₃ 1 hr. into 0.01 mol. X in the min. amount of absolute EtOH, cooled with ice, gives 33.1% o-HCONHC₆H₄CONH₂.

Habte

L4 ANSWER 78 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:470611 CAPLUS

DOCUMENT NUMBER: 71:70611

TITLE: 2-Amino-4H-3,1-benzoxazin-4-ones

INVENTOR(S): Sayigh, Adnan A. R.; Ulrich, Henk

PATENT ASSIGNEE(S): Upjohn Co.

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3450700	A	19690617	US 1966-603146	19661220

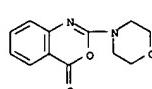
PRIORITY APPLN. INFO.:

AB The subject compds. are prepared Thus, COCl₂ is passed into a refluxing mixture of 16.3 g. isatoic anhydride, 165 mL PhCl, and 0.33 g. HCONMe₂ until a clear solution is obtained. After purging with N₂ the PhCl is distilled and the distillation continued in vacuo to yield 10.75 g. 2-isocyanatobenzoyl chloride (I) b.p. 100-30°, 30-3°. The following 2-isocyanatobenzoyl chlorides are similarly prepared (substituent given): 5-Cl, 6-MeO₂; 4-Cl; 3-Br; 6-F; 3,5-Cl₂; 3,5-I₂; 6-Et; 6-Pr; 3-Me; and 6-F₃C. I (3.6 g.) is stirred into 2.9 g. Et₂NH in 20 mL CS₆H. The temperature at 70° is reduced to 25° and the solids removed. The filtrate is evaporated to dryness, the residue taken up in Et₂O, and

the Et₂O removed in vacuo to yield 4.3 g. 2-(dithylethamino)-4H-3,1-benzoxazin-4-one. The following 4H-3,1-benzoxazin-4-ones are similarly prepared 2-Bu₂N, 2-morpholino, 2-diethylamino, 2-diethylamino-5-chloro.

IT 23494-28-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)

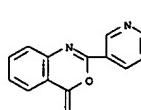
RN 23494-28-2 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



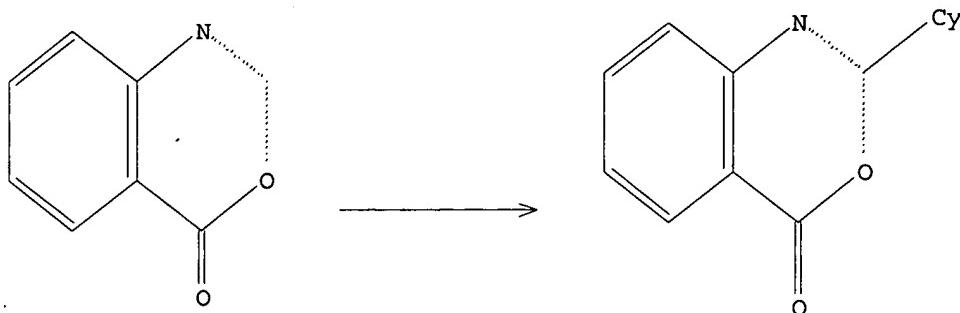
L4 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 119-22°; at 10-15°, 47.2% 4-quinazolone, m. 216-17°, is formed. I (R = Et or Pr) and NH₃ give 52.2% 2-ethyl-, m. 233°, and 43.1% 2-propyl-4-quinazolone, m. 200-1°, resp. By passing NH₃ into I in boiling EtOH the following o-RCONHC₆H₄CONH₂ (XIIa) are prep'd.

R = o-MeC₆H₄ (XIII), 24.4% yield, m. 217-18°; p-MeC₆H₄, 39.3%, m. 204-5°; o-ClC₆H₄ (XIV), 58.8%, m. 198-9°; p-ClC₆H₄, 44.8%, m. 200.5°; o-O₂NC₆H₄ (XV), 53%, m. 195°; p-O₂NC₆H₄, 61.5%, m. 235-6°; nicotinyl, 53.9%, m. 211°. Heating XIIa 0.5 hr. at 240-50° and recrystg. the product from AcOEt give the 2-substituted 4H-quinazolones, o-C₆H₄N:CR.NH.CO, of which the following are prep'd: R = p-MeC₆H₄, 38.1% yield, m. 241-2°; p-ClC₆H₄, 67.4%, m. 306°; p-O₂NC₆H₄, 68.3%, m. 351-2°; 3-pyridyl, 41.5%, m. 276°. Ring closure at 250° failed with XIII-XV. Heating 0.01 mol. I with 0.01 mol. PhNH₂ 3 hrs. on a steam bath and recrystn. of the product from AcOEt-C₆H₄ give o-RCONHC₆H₄CONH₂ (XVI), of which the following are prep'd: R = Et, 37.7% yield, m. 164°; Pr, 58.4%, m. 151-2°; Ph, 74.4%, m. 216-18°; o-MeC₆H₄, 39.9%, m. 194.5%; p-MeC₆H₄, 51.8%, m. 220-1°; o-ClC₆H₄, 55.4%, m. 214-15°; p-ClC₆H₄, 52.5%, m. 236-7°; o-O₂NC₆H₄, 39.9%, m. 197°; p-O₂NC₆H₄, 53.3%, m. 207-8°; nicotinyl, 61.6%, m. 248-9°. Heating XVI (R = alkyl) 0.5 hr. at 240-50° or 0.01 mol. XVI (R = aryl) with 3 mg. ZnCl₂ about 10 min. at 240-50° give o-C₆H₄N:CR.NH.CO, of which the following are prep'd: R = Et (XVII), 43.8% yield, m. 125-5.5°; Pr (XVIII), 53.2%, m. 120-1°; Ph, 41.9%, m. 156-7°; o-MeC₆H₄, 16.1%, m. 179-80°; p-MeC₆H₄, 54.6%, m. 178°; p-ClC₆H₄, 39.8%, m. 177°; p-O₂NC₆H₄, 43.2%, m. 224-5°; 3-pyridyl, 57.7%, m. 175-6.5°. VIII (0.01 mol.) and 0.01 mol. PhNH₂ heated 0.5 hr. at 150-60° give 67.8% XVII; IX and PhNH₂ give XVIII. When 4.95 g. II, 24.4 g. Ac₂O, and 0.49 g. NaOCN are refluxed, transacylation takes place, giving 44.7% I (R = Me), m. 78-80°. The ultraviolet absorption spectrum of I (R = Me) is compared with that of o-AcNH₆H₄CO₂H and isatoic

anhydride in neutral and alk. dioxane, and the infrared absorption spectrum of I (R = Me) is given. The results seem to indicate that the so-called acylanthenranils have the structure I.
 IT 53180-68-0P, 4H-3,1-Benzoxazin-4-one, 2-(3-pyridyl)-
 RL: PREP (Preparation)
 (preparation of)
 RN 53180-68-0 CAPLUS
 CN 4H-3,1-Benzoxazin-4-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



Q

Cy-COCH

Structure attributes must be viewed using STN Express query preparation.

=> file casreact	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.45	0.66

FILE 'CASREACT' ENTERED AT 08:47:52 ON 27 FEB 2007
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FILE CONTENT:1840 - 25 Feb 2007 VOL 146 ISS 9

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 * CASREACT now has more than 12 million reactions *
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11
 SAMPLE SEARCH INITIATED 08:47:57 FILE 'CASREACT'
 SCREENING COMPLETE - 2 REACTIONS TO VERIFY FROM 2 DOCUMENTS

100.0% DONE 2 VERIFIED 0 HIT RXNS 0 DOCS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 sss full
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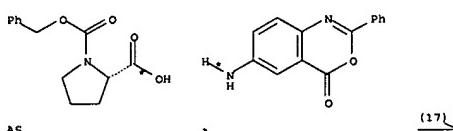
100.0% DONE 111 VERIFIED 15 HIT RXNS 5 DOCS
SEARCH TIME: 00.00.04

L3 5 SEA SSS FUL L1 (15 REACTIONS)

=> d fhit abs ibib tot

L3 ANSWER 1 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

BX(17) OF 32 AS + A ==> AT



AT
YIELD 62%

RX(17) RCT AS 1148-11-4

STAGE(1)
RGT G 538-75-0 DCC
SOL 75-09-2 CH2C12
CON 1 hour, 0 deg C

STAGE (2)
RCT A 60498-33-1
CON 1 - 3 day, room temperature

PRO AT 866005-83-6

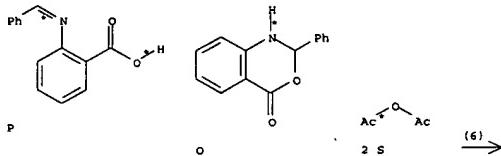
AB A series of amino acid amides and peptide amides of 6-amino-2-phenyl-4H-3,1-benzoxazin-4-one were synthesized and tested *in vitro* for their inhibitory activity towards human leukocyte elastase (HLE). When compared to their values without inhibitors, the residual enzymic activities decrease with time, indicating a time-dependent inhibition. The most potent inhibitions were obtained when Cbz-Arg-(Pmc), Cbz-Val-Phe, Cbz-Ala-Val or Cbz-Val-Ala are linked to the 6-amino group.
 ACCESSION NUMBER: 143:347431 CASREACT
 TITLE: Synthesis and anti-elastase properties of 6-amino-2-phenyl-4H-3,1-benzoxazin-4-one aminoacyl and dipeptidyl derivatives

L3 ANSWER 1 OF 5 CASRIGHT COPYRIGHT 2007 ACS on STN (Continued)
AUTHOR(S): Colson, Eric; Wallach, Jean; Hauteville, Marcelle
CORPORATE SOURCE: Laboratoire de Biochimie Analytique et Synthèse
Biologique, Université Claude Bernard Lyon 1,
Villeurbanne cedex 69 622, Fr.
SOURCE: Biochimie (2005), 87(2), 223-230
CODEN: BICMBE; ISSN: 0300-9084
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE 'RE

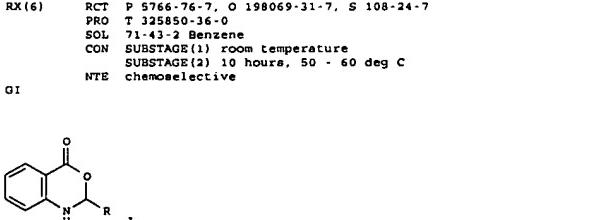
RECORD. ALL CITATIONS AVAILABLE IN THE RE

L3 ANSWER 2 OF 5 CASREACT COPYRIGHT 2007 ACS on STN

RX(6) OF 14 . . . P + O + 2 S ==> 2 T



T YIELD 73%



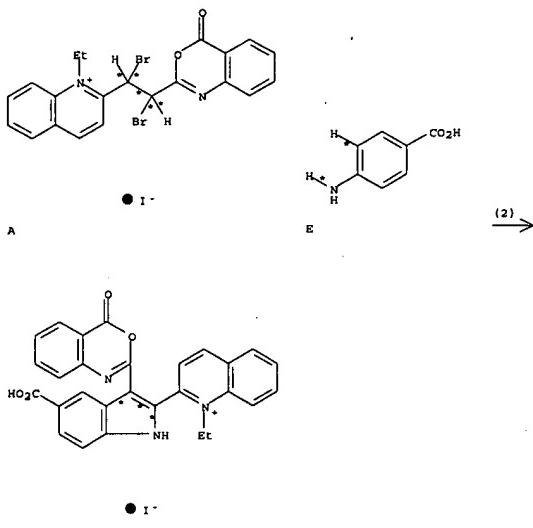
AB Anthranilic acid imines underwent ring-chain tautomerism with benzoxazines (I; R = Ph, 4-nitrophenyl, 2-hydroxyphenyl, trichloro-2-thienyl). Acetylation of the tautomer by Ac₂O or by AcCl in the presence of pyridine occurred on the N atom of I; acetylation of an anthranilic acid imine was also observed, which was attributed to the tautomer formed in

L3 ANSWER 2 OF 5 CASREACT COPYRIGHT 2007 ACS ON STN (Continued)
 starting material. Both substituents in N-acetylated I were pseudoaxial
 ACCESSION NUMBER: 141:379876 CASREACT
 TITLE: Synthesis and acylation of anthranilic acid imines
 AUTHOR(S): Kon'kova, S. G.; Aboyan, G. M.; Khachaturyan, A. Kh.
 Badasyan, A. E.; Konoyan, P. S.; Sargsyan, M. S.
 CORPORATE SOURCE: Inst. Org. Khim., NAN Arm., Yerevan, Armenia
 SOURCE: Hayastani Kimikani Handes (2004), 57(1-2), 71-77
 PUBLISHER: Izdatel'stvo Gitutyun NAN Respublikni Armenii
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

(I; R
Acetyl
Acetate)

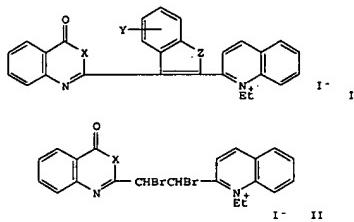
03/06/2007

RX(2) OP 121 . . . A + E ----> F



RX (2) RCT A 104968-06-1, E 150-13-0
PRO F 104967-80-8
SOL 64-17-5 EtOH
GI

61



AB The title dyes I ($X = O, NH; Y = H, 5-Me, 5-MeO, 5-O2N, 5-Cl, 5-HO2C, 7-HO, 5,6-diene, 6,7-benz$) were prepared by treatment of II ($X = O, NH$) with the appropriate phenols and/or arylamines. The new cyanines were identified by spectral determination. Bactericidal and fungicidal activity of selected cyanines were tested.

selected cyanines were tested.

ACCESSION NUMBER: 105174394 CASREACT
 TITLE: Synthesis, spectral behavior and biological activity
 of benzoxazonyl(quinolalonyl)benzofuranolo(indolo)quinol
 ine epocyanine dyes
 AUTHOR(S): Khalil, Z. H.; Koraem, A. I. M.; El-Maghriby, M. A.;
 Abd-El-Hamed, R.
 CORPORATE SOURCE: Chem. Dep., Aswan Fac. Sci., Aswan, Egypt
 SOURCE: Journal of Chemical Technology and Biotechnology
 (1986), 36(8), 379-88
 CODEN: JCTBED; ISSN: 0268-2575
 DOCUMENT TYPE: Journal
 LANGUAGE: English

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03/06/2007